

POWERTECH

MB4104

2048Wh Power Station



Instruction Manual

Please read and save all instructions to ensure safe and effective use of this product.



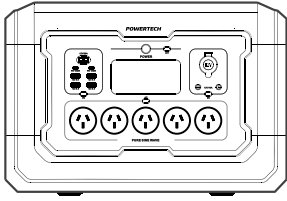
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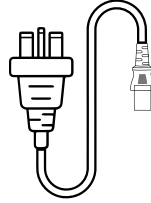
GENERAL INFORMATION & SAFETY INSTRUCTIONS

- The default standby time of this product is 6 hours. If other output power keys are not turned on and no load is connected to the product, the product will automatically shut down after 6 hours.
- If the product is not operated within 5 minutes, the product will enter sleep state, and the LCD screen will automatically turn off.
- When the product has load changes or operations, the LCD screen automatically lights up. The standby time can be set on the APP.
- The manufacturer is not responsible for any potential injury from misuse
- Before connecting a solar panel, confirm that the output open circuit voltage specification of the solar panel is under 80V to avoid damage to the product.
- The power station should only be charged via the included car charging cable while your vehicle is running to avoid draining the starter battery of your vehicle.
- After fully charging the power station, all blue capacity segments will be illuminated.
- Only use the supplied cable to connect the power station to the extended battery
- Up to one extended battery can be connected to this product.
- If the fuse has been triggered, it will need to be replaced before the power station can be used again.
- If a replacement fuse is required, please take the blown fuse with you to your place of purchase to obtain a suitable replacement.

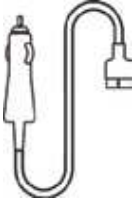
BOX CONTENTS



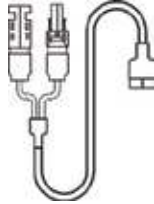
Power Station



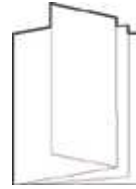
Mains Charging Cable



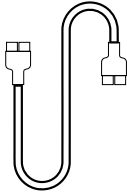
12V Charging Cable



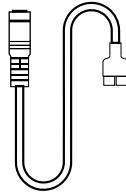
Solar Charging Cable



User Manual

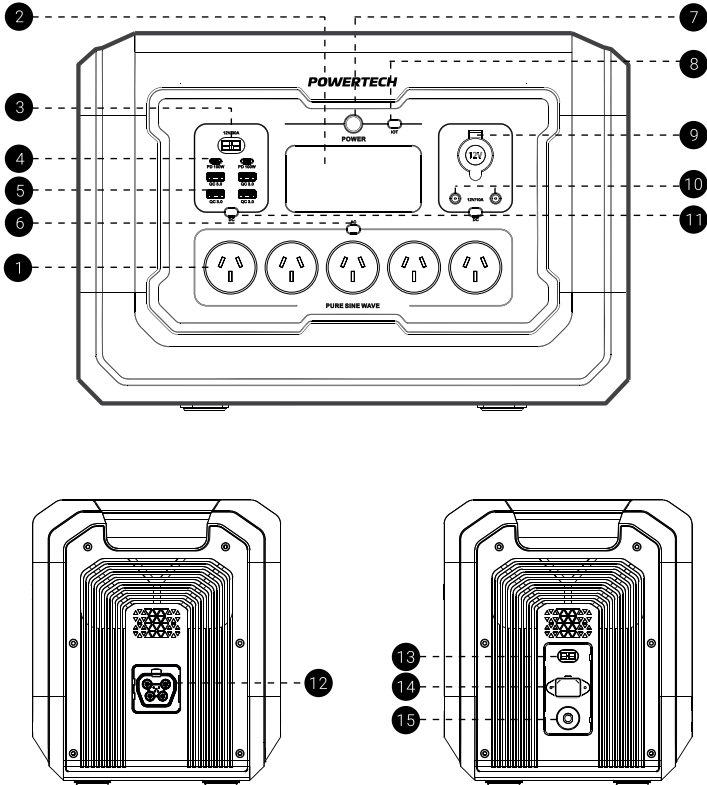


Anderson Cable



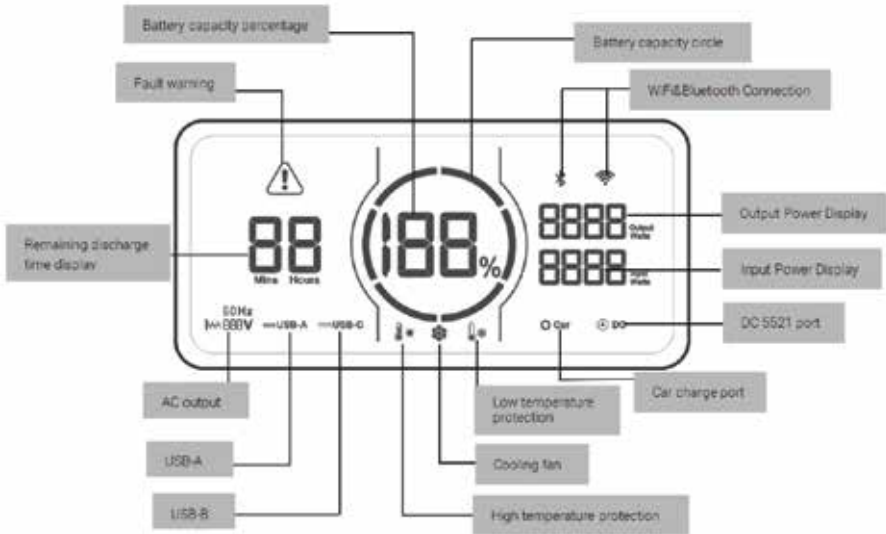
Anderson 7909 Cable

PRODUCT DIAGRAM



- | | |
|----------------------------------|-----------------------------------|
| 1. AC Outputs | 9. 12V Car Charger Output Port |
| 2. LCD Display | 10. DC 5521 Output Port |
| 3. Anderson Output Port | 11. DC Output Power On/Off Switch |
| 4. USB-C Output Port | 12. Power pack connection port |
| 5. USB-A Output Port | 13. Anderson Input Port |
| 6. AC Output Power On/Off Switch | 14. AC Recharging Input Port |
| 7. Main Power On/Off Switch | 15. Circuit Breaker Protection |
| 8. IOT On/Off Switch | |

LCD SCREEN DESCRIPTION



BEFORE FIRST USE

Prior to using your product, please read all the safety and operating instructions thoroughly. Please ensure you follow the steps below before using the product. We recommend you keep the original packaging for storing the product when not in use.

Please pay close attention to the section entitled Important Safety and General Instructions. Find a safe and convenient place to keep this instruction manual for future reference.

Unpack the product but keep all packaging materials until you have made sure your new product is undamaged and in good working order. Ensure you have all accessories listed in this manual. Plastic wrapping can be a suffocation hazard for babies and children so ensure all packaging materials are out of their reach.

NOTE: Please ensure the power station is fully charged via the included mains charging cable before first use.

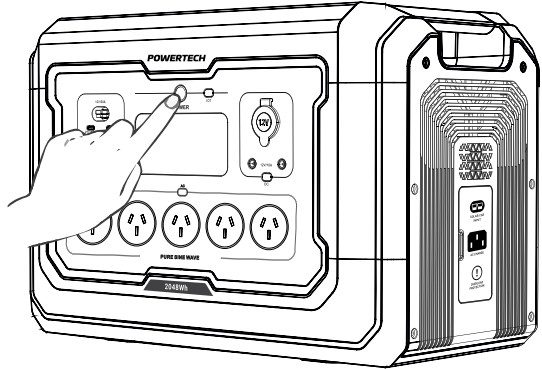
OPERATING INSTRUCTIONS

Power

Powering the unit

To power the unit **on**, press and hold the **Main Power button (7)** until the LCD screen lights up. The power button indicator light will turn to a steady state.

To power the unit **off**, press and hold the **Main Power button (7)** until the LCD screen displays the word "off" and then release the button. The product will shut down, confirmed via the LCD display turning off.



Powering the outputs

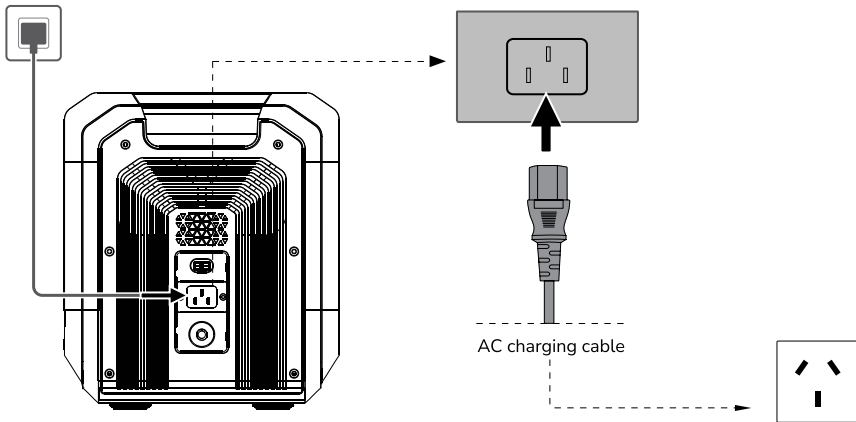
Each output type has a dedicated switch which must be turned on after the unit has been powered via the **Main Power button (7)**. They are activated via tapping the corresponding button and are shown on the LCD display while active. Individually controlled buttons are the **AC Output Button (6)**, the **IoT On/Off Button (8)**, and the **USB Output Button**.

CHARGING INSTRUCTIONS

AC Charging

To begin charging, take the included **Mains Charging Cable** and plug the mains end into a free mains outlet, and the other end into the **AC Charging Input**. Turn on the mains outlet to begin charging.

After fully charging the power station, all blue capacity segments will be illuminated.



NOTE: When charging, the blue battery capacity circle flashes clockwise.

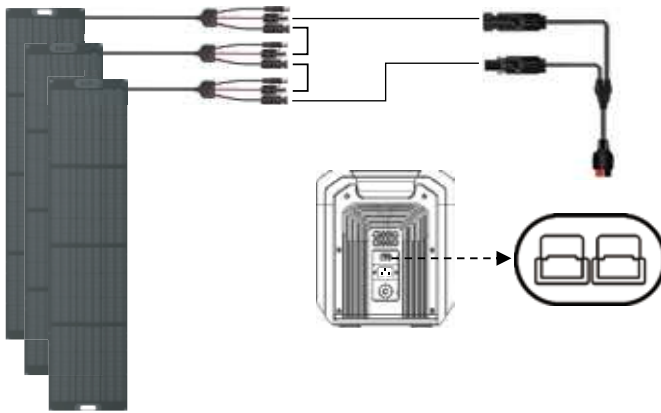
NOTE: Once charging is completed, please unplug the charger.

Solar Charging

Use the included **Solar Charging Cable** to connect a 12V solar panel (not included) to the device.

To begin charging, take the included **Solar Charging Cable** and plug MC4 solar connectors into your solar panel (not included), and the other end into the **DC & Solar Charging Input**. Place your solar panels into direct sunlight to begin charging.

After fully charging the power station, all blue capacity segments will be illuminated.



NOTE: A minimum of 12VDC is required to charge via the DC / Solar Input.

NOTE: A maximum of 80VDC and 800W can be connected to the DC / Solar input.

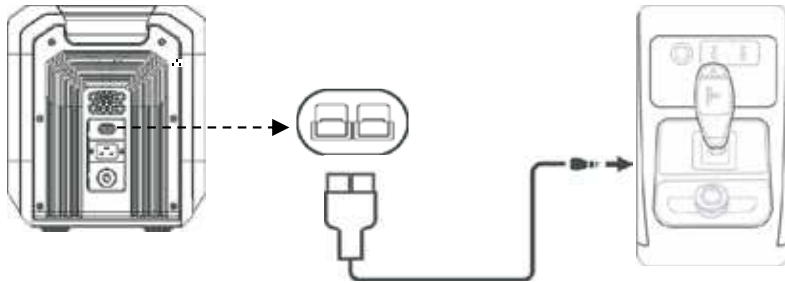
NOTE: Power station includes internal solar controller. Do not plug in external solar controller.

Car Charging

Use the included **Car Charging Cable** to charge the power station to your vehicle.

To begin charging, take the included **Car Charging Cable** and plug the cigarette plug into a free socket in your vehicle, and the other end into the **DC & Solar Charging Input**. The power station will then begin charging.

After fully charging the power station, all blue capacity segments will be illuminated.

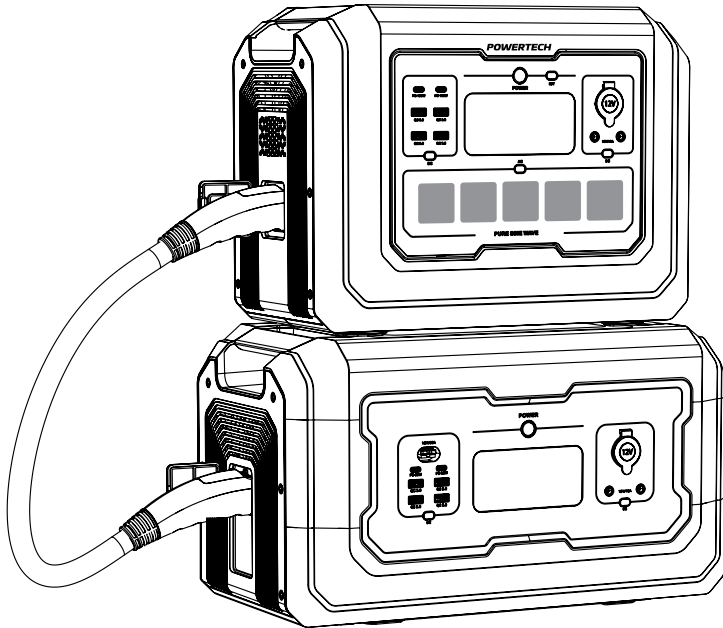


NOTE: If the power station does not begin charging, your vehicle may use switched cigarette outlets. Please check with your vehicles user manual for further advice.

NOTE: The power station should only be charged via the included car charging cable while your vehicle is running to avoid draining the starter battery of your vehicle.

Extended Battery Charging

To use the optional extended battery, connect the power station via the connecting cable, which is supplied with the extended battery. The device will start to charge when a reading appears on the input power on the screen.



WARNING: Only use the cable supplied to connect the power station to the extended battery.

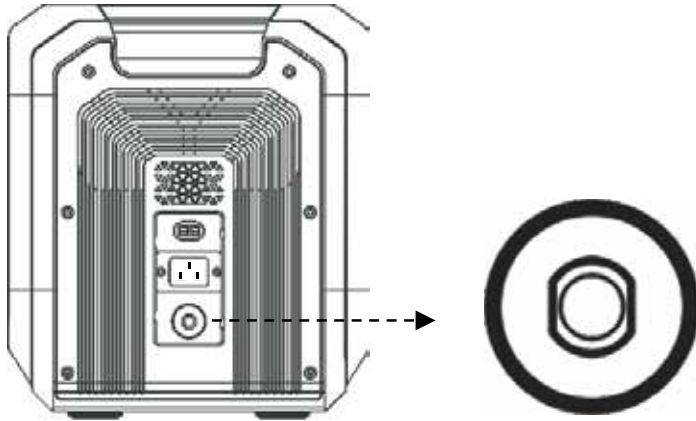
WARNING: Do not directly connect or remove the extended battery while either unit is powered on, as this will damage both devices.

WARNING: Do not use your hands or other objects to touch the metal terminals at the connection port of the power pack. If there are foreign objects attached to the metal terminals, please lightly wipe with a dry cloth.

NOTE: Up to one extended battery can be connected to this product.

Circuit Protection

If the unit is overloaded, it may trigger the circuit breaker to protect the power station and any connections. If this occurs, please disconnect the power station from any devices and charging inputs before resetting the circuit breaker, located at **Circuit Protection (15)**.



NOTE: If the circuit breaker has been triggered, it will need to be reset before the power station can be used again.

USING THE BLUETOOTH APP

Control, monitor and customize your power station from afar with the App.

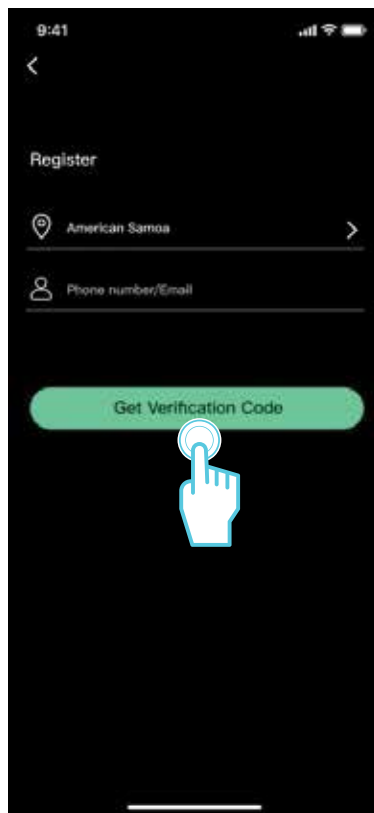
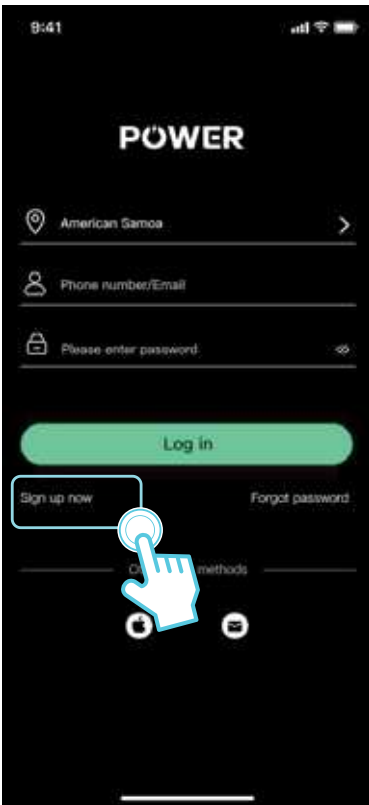
Download at: <https://wp2-us.doiting.com/release/wp2em/download.html?param=1,JTEK3,0>

Scan the QR code to download the smart control APP.



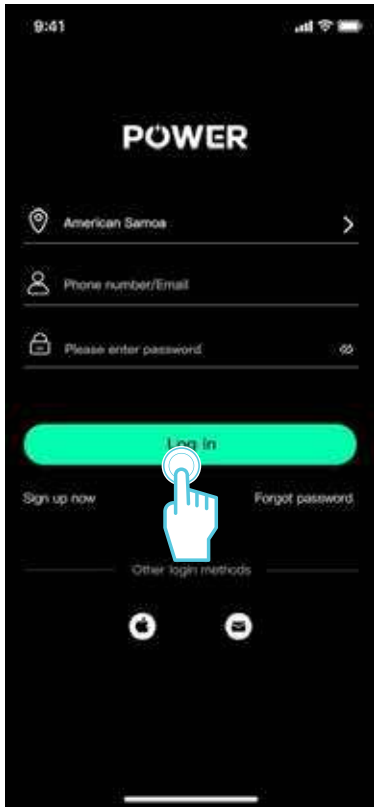
Sign Up

Open the App, click "Sign up now" to sign up.



Log In

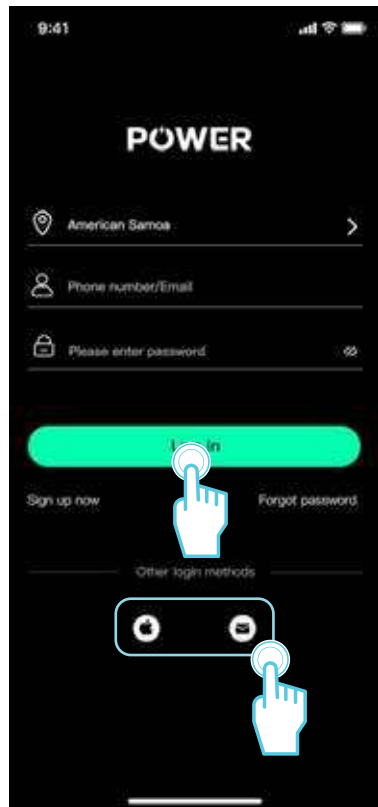
If you have an account already, tap "Log in" to enter your account name & password. If you forget your password, on the password login page, click "Forgot Password" and follow the steps to reset it.



Log In by third-party account

The Android version App supports users to log in through Google accounts. The IOS version app supports users to log in through Facebook, Google, and Apple ID.

Click the third-party platform icon at the bottom of the App login interface to log in using a third-party account.



Connection Setup

There are three connection methods for the devices: Bluetooth, the device's Wi-Fi hotspot, and IoT.

When the App establishes a Bluetooth or a Wi-Fi hotspot connection with the device, you can view the real-time status of the device through the App, then control and manage the device wirelessly. We also provides users with an advanced way to connect devices: IoT connection.

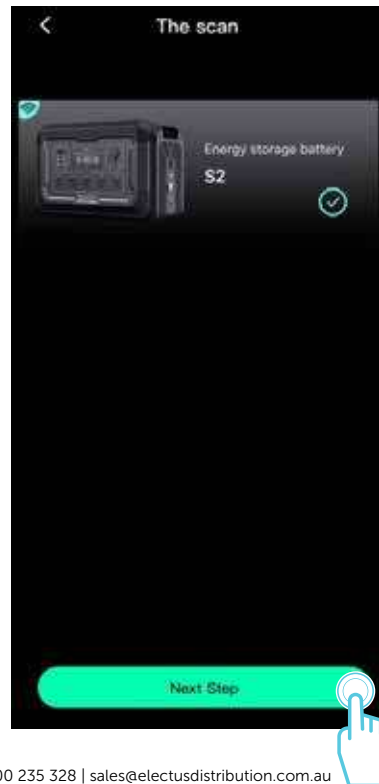
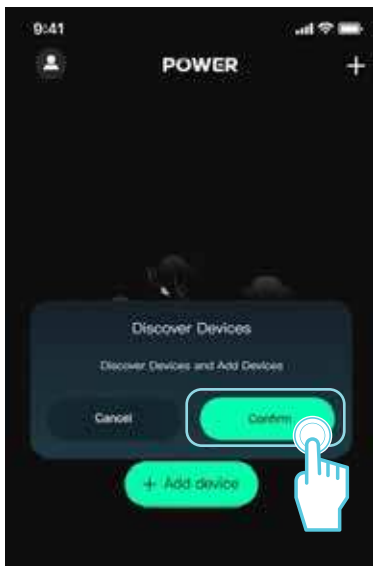
Based on establishing a Bluetooth or Wi-Fi hotspot connection between the mobile App and the device, the device can be set up to connect to the Internet by joining your Wi-Fi, and the connection has changed to the IoT connection at the same time, then users can use the App to control and manage the device anytime and anywhere.

Bluetooth Connection

Automatically discover Bluetooth devices

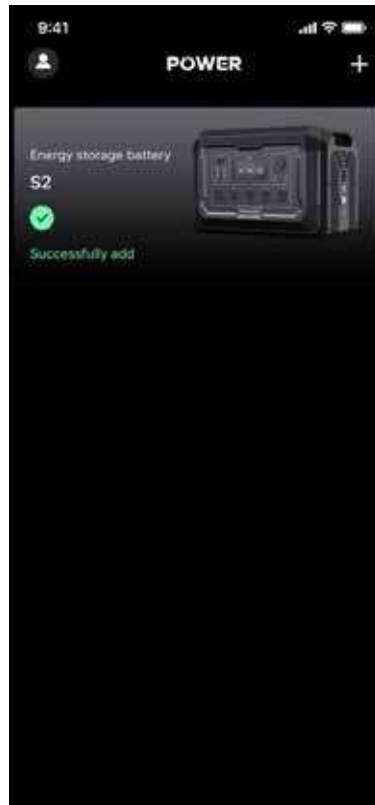
Turn on the "IoT" button on the device, the APP will automatically search and pop up "Discover Device", click to confirm to add the device.

Select the device to be link and click Next.



After Sales Support | AU 1300 738 555 | NZ 0800 235 328 | sales@electusdistribution.com.au

Click the pairing button and match the 2.4GHz frequency Wi-Fi signal, enter the password and click OK. After the Wi-Fi matching is successful, start to connect the device. After the loading is completed, the connection is successful.

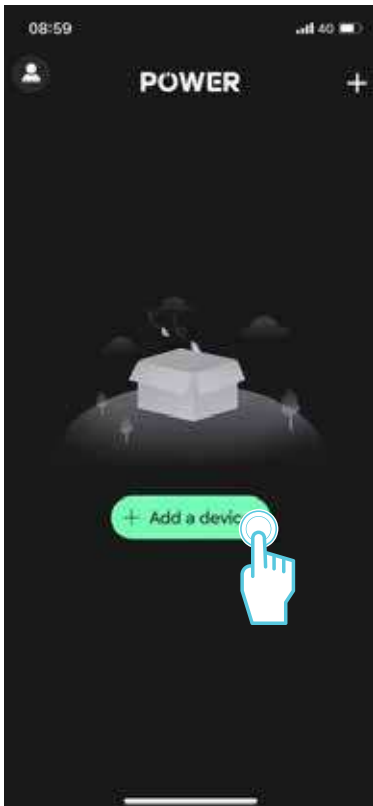


NOTE: The device only supports 2.4GHz frequency Wi-Fi connection, please use 2.4GHz frequency Wi-Fi.

Automatically discover Bluetooth

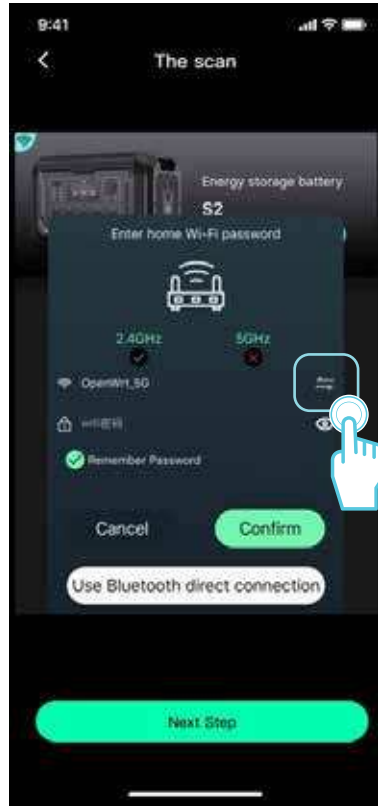
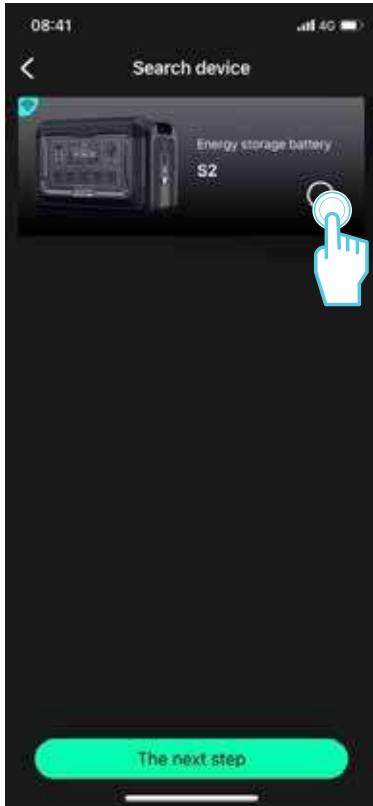
If the "Discover devices" dialog does not appear on the home page of the App, you can click the "Add Device" button to search for nearby Bluetooth devices. If you click the "Add Device" button, the App does not scan the Bluetooth of the device to be added, you can manually select the corresponding device, and reset it according to the App guidelines, then connect the Bluetooth.

If the Bluetooth cannot be found after the above steps, please check whether the device is powered on and try again. If you fail repeatedly, please contact the official customer service for technical support.



Device's Wi-Fi hotspot connection

Click the "Add Device" button on the home page of the App, you can select the corresponding device that supports a Wi-Fi hotspot connection in the manually added device list, and according to the instructions of the App, click the "IoT" button to reset the device and connect to Wi-Fi hot spot.



IoT connection

Before establishing a Bluetooth or a Wi-Fi hotspot connection between the App and the device, please ensure that the device is installed with App and connected to the internet. At this time, the device is connected to the IoT, and the device can be controlled by App anywhere with the Internet.

Device Control and Upgrade

After the successful connection, the App will display the connected device. By clicking the corresponding device icon, you can enter the device details page to view the real-time status and data, and control it.

Device Control

When the App is connected to the device via Bluetooth, Wi-Fi hotspot, or IoT, it is online. You can view the device status and data in real-time on the App device details page, control the device, unbind the device, etc.

Device is Offline

When there is no Bluetooth, Wi-Fi hotspot, or IOT connection between the App and the device, is offline, and you cannot view the device status and data or control the device in the App.

Firmware upgrade

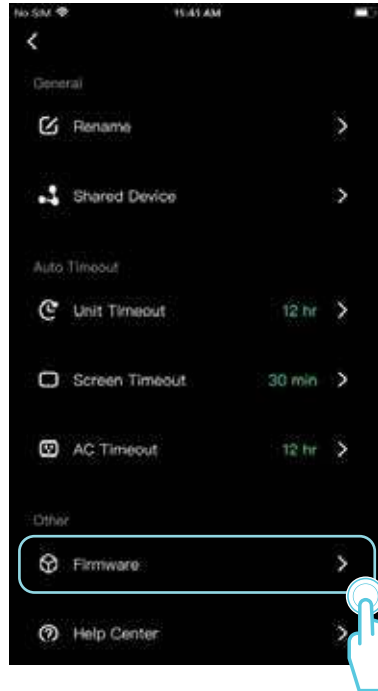
The firmware upgrade function is an essential feature of the App. A new firmware version will be released to fix known bugs, improve performance, and add new features.

Check for new firmware version

There are two methods to check whether the current device has a firmware version to be upgraded: automatic detection and manual checking.


Automatic detection: After the App enters the device details page, if an upgradeable firmware version is detected, a pop-up window will appear to remind you to upgrade it.

Manual checking: You can upgrade the firmware by selecting the “Firmware Upgrade” item from the Settings of App device details page.



Personal Settings and More

Modify avatar and nickname




















Enter the App, click the “” button at the upper left to enter the homepage, and then click the avatar and nickname area at the top to enter the Personal Settings page.












On the Personal Settings page, click the avatar or nickname button, and follow the prompts on the page to modify the avatar or nickname.

Change Password

On the Personal Settings page, click the “Set Password” button, enter the previous and the new password twice according to the page prompts, and click Finish.

ERROR CODES

FAULT CODE	FAULT INFORMATION	STATUS	REMARKS
E000	AC output short circuit protection	Flashing, no output  	Press the AC output power on/off button for recovery
E001	Output overload protection	Flashing, no output   	Flashing icons indicates which circuit overload. Overload protection needs to be restored manually, UPS function overload 2000W 1 sec.
E002	AC Battery low voltage protection	The corresponding function flashes and the corresponding port has no output.	After protection, restart corresponding function keys to restore functions, and recharge it timely
E003	AC output over-voltage and low voltage protection	Flashing, no AC output 	You need to manually press the AC power button to recover
E004	Abnormal AC input frequency	Flashing, no output 	Automatically recover when frequency is normal
E005	High and low bus voltage, over-current	Flashing, no output at all ports 	You need to manually press the AC power button to recover
E006	Inverter over-temperature charging over-temperature protection	Flashing, no output   	Temperature lower down to normal level, it will recover automatically
E010	Overload and short circuit of the cigarette lighter socket	Flashing, no output   	You need to manually press the DC power button to recover
E011	Overload and short circuit of the USB-A port	Flashing, no output at all ports  	You need to manually press the DC power button to recover
E012	Overload and short circuit of the USB-C port	Flashing, no output at all ports  	You need to manually press the DC power button to recover
E016	Overvoltage of the inverter input battery	E016 code +  Flashing	You need to manually press the DC power button to recover

FAULT CODE	FAULT INFORMATION	STATUS	REMARKS
E020	BMS communication failure	Flashing, no output at all ports 	Check BMS communication cable
E021	Battery cell high voltage alarm	E021 code flashing	Set the device aside and wait for the battery voltage to recover automatically
E022	Battery cell low voltage alarm	Battery capacity percentage flashing	Connect the AC charging cable and keep charging until the voltage is normal
E023	Total battery voltage is too high	E23 code flashing but output is normal	Set the device aside and wait for the battery voltage to recover automatically
E024	Total battery voltage is too low	Flashing, no output at all ports 	Connect the AC charging cable and keep charging until the voltage is normal
E025	Battery high temperature	Flashing, no output at all ports  	Automatically resumes after temperature recovery
E026	Battery low temperature	Flashing, no output at all ports  	Automatically resumes after temperature recovery
E027	System overload	Flashing, AC output close, DC output is normal, the AC load is higher than 2100W or AC+DC load is higher than 2100W 	You need to manually press the AC power ON/OFF button to recover
E028	Charging over-temperature	Flashing, charging stop  	Automatically resumes after temperature recovery
E029	MOSFET over-temperature	Flashing, no output at all ports  	Automatically resumes after temperature recovery
E030	Abnormal battery pack connection	Battery pack connection error	Please replace with the standard battery pack

CLEANING, CARE, STORAGE & MAINTENANCE

- When storing, please turn off this product first and then store it in a dry, ventilated place at room temperature.
- Do not place this product near water and fire sources.
- During long-term storage, it is recommended to charge and discharge the battery every three months to extend the service life of this product.
- Please use a dry, soft, clean cloth or paper towel to wipe this product.
- Please store the product away from water sources, heat sources, and metal objects.
- To extend the service life of the battery, it is recommended to use or store this product in an environment of 20C to 30°C.
- If long-term storage is required, please charge and discharge this product once every 3 months (first discharge to 0%, then fully charge, then discharge to 60% for long-term storage).
- For safety reasons, do not store this product in an environment above 45°C or below -10 C for extended periods.

SPECIFICATIONS

Model		S2
AC Output	Rated Voltage	230VAC
	Rated Power	2500W
	Peak Power	5400W
	Frequency	50Hz
DC 12V & Car Lighter Output	Rated Voltage	12V
	Rated Current	10A
Mini Anderson Output		12V / 30A
USB-A Output		5V/3A; 9V/2A; 12V/1.5A [18W Max]
USB-C Output		5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/5A [100W Max]
AC Charge Input		220~240Va.c 7.5A 1600W
Solar Input		12~150Va.c MPPT:18-140V/15A 2100W Max
Rated Capacity		2048Wh
Rated Voltage		51.2 Vdc
Battery Type		LiFePO4
IP Grade		IP21
Working Temperature		0°C~40°C
Dimension		460 x 270 x 305mm
Net Weight		22kg

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555