

Power Lite Plus Quick Installation Guide

PLPA-L1-10K2

Ver 1.3

Revision History

Date	Revision	Description	Owner
2023-12-19	V1.0	Initial Release	Vera Wu
2024-07-25	V1.1	Wiring diagram update	Vera Wu
2025-09-26	V1.2	Content Correction	Vera Wu
2026-09-11	V1.3	Added the Wi-Fi App Usage section, supplementary notes and diagrams	Vera Wu

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1. Detailed Specifications

Item Name	Specification	Remark
Rated Capacity	200 Ah	
Rated Voltage	51.2 V	
Rated Current	0.6C, 120 A	
Working Voltage Range	43.2 V - 58.4 V	
Rated Energy	10.24 kWh	
Max. Parallel Quantity	Max. 32 sets in parallel, 327.68 kWh	
Rated Charging Current	0.6C, 120 A	
Rated Discharge Current	0.6C, 120 A	
Battery Max. Charge/Discharge Power	6.14 kW/6.14 kW	
Peak Discharge Current / Power	160 A/8.19 kW, 1 min	
Standard Charging Method	0.6C CC to 57.6 V; CV at 57.6 V until current is 0.05C	
Available SOC Range	0% ~ 100%	
SOC Transportation Range	50%	
Dimensions [W*D*H]	550x165x867 mm (±5) / 21.65x6.50x31.21 in (±5)	
Weight	~94 kg	
Operating Temperature[1]	Charge: -5 °C ~ 55 °C Discharge: -15 °C ~ 55 °C	
Storage Temperature[2]	-15 °C ~ 55 °C	
Working Humidity	< 95% RH (non-condensing)	
Altitude[3]	≤ 2,000 m	
Communication	CAN, RS485, Dry Contact, Wi-Fi	Wi-Fi Stick Option
Certifications	IEC 62619, IEC 62040, IEC 61000, UN 38.3	
Designed Cycle Life (25 °C±2 °C)	6,000 Cycles	0.5C/80%DOD/80%SOH/1 cycle per day
Warranty	10 years	Working Condition 0.5C @ 25 deg C, 80 % DoD, 1 cycle per day
IP Rating	IP65	
Cooling	Natural Cooling	
Heating Power	230.4 W	
Fire protection	Option	
Environmental Protection Standard	RoHS	

1. Recommended operating temperature: 10 °C ~ 30 °C
2. Recommended storage temperature: 10 °C ~ 30 °C.
3. Recommended working height is less than 2,000 m, and the max. working height is 3,000 m.

2. General Information

2.1 Product Validity

This document is valid for the following models:

- PLPA-L1-10K2

2.2 Target Group

This document is intended for qualified persons who must perform the tasks exactly as described in this user manual.
All installation work must be performed by appropriately trained and qualified persons.
Qualified persons must possess the following skills:

- Knowledge of how batteries work and are operated.
- Training in how to deal with the dangers and risks associated with installing, repairing and using electrical devices and batteries and installations.
- Training in the installation and commissioning of electrical devices.
- Knowledge of all applicable laws, standards and directives.
- Knowledge of and compliance with this document and all safety information.

2.3 Symbols

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, can result in property damage.

ℹ

Information that is important for a specific topic or goal, however not related to safety.

3. Safety

3.1 Important Safety Instructions

The product has been designed and tested strictly according to the international safety requirements. As with all electrical or electronic devices, there are residual risks despite careful construction. To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

⚠ DANGER

Danger to life due to electric shock where surge protection is not used!

If there is no surge protection, a voltage surge can be conducted into the building and to other connected devices in the same system through power cables, network cables or other types of cable. Touching live parts and cables may result in death or lethal injury due to electric shock.

- Ensure all devices in the same system and the inverter are integrated within existing surge protection systems/devices.
- Refer to local installation regulations to determine the requirements for the installation of surge protection devices.

⚠ WARNING

Danger to life due to electric shock from destruction of measurement devices due to overvoltage!

Overvoltage can damage a measurement device and result in voltage being present in the enclosure of the measurement device. Touching the live enclosure of the measuring device can result in death or lethal injuries due to electric shock.

- Only use measuring devices with a higher voltage range than the system battery voltage.

⚠ CAUTION

Risk of injury due to weight of product!

Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.

- Lift and transport the product carefully.
- Wear suitable personal protective equipment, in accordance with local regulations, when working on the product.

NOTICE

Damage to the battery system due to electrostatic discharge!

Internal components of the battery system can be irreparably damaged by electrostatic discharge.

- Ground yourself before touching any component.

3.2 Installation Requirements

Before installing, operating, and maintaining the device, the personnel must be trained to understand all safety precautions and correct operation methods.

- Only qualified and trained personnel are allowed to install, operate, and maintain devices.
- Only qualified professionals are allowed to remove safety facilities and repair equipment.
- The product must be installed and used in accordance with the specifications described in this manual (refer to "Installation" and "Technical Specifications"). Otherwise, the product may be faulty, and the resulting abnormal function or component damage is not covered by the product quality guarantee.

3.3 Grounding Requirement

The following applies only to devices that need to be grounded (except energy storage units).

- When installing devices, ground them. When removing the device, remove the ground cable at the end.
- Do not damage the ground conductor.
- Do not operate the device without a ground conductor installed. Before operating the device, check the electrical connections of the device to ensure that the device is reliably grounded.

3.4 Personal Safety

- Do not operate devices or cables during thunderstorms.
- Before opening a device, wear ESD clothes, ESD gloves, and an ESD wrist strap. Remove conductive objects such as jewelry and watches to avoid electric shocks or burns.
- If there is a fire, evacuate the building or equipment area and press the fire alarm bell, or call the fire alarm number. Under no circumstances is it permitted to re-enter a burning building.
- Do not turn on the switch before the device installation is complete.

3.5 Equipment Security

- Before operation, the device should be securely fixed to the floor or other stable objects, such as walls or mounting racks.
- Do not block vents when the system is running.
- Before powering on the device, ensure that screws inside the device are secured to prevent them from falling off during running.
- After installing the device, clear the empty packing materials from the device area.
- Replace unclear hazard signs promptly.
- In any case, do not change the structure of the equipment, installation sequence, etc., without the permission of the manufacturer.
- Do not use water to clean electrical components inside or outside the cabinet under any circumstances.
- Do not drill holes directly into the cabinet.

3.6 Heavy Lifting Safety

DANGER

The product is heavy. Improper handling or lifting may result in serious injury or equipment damage.



< 18 kg < 40 lb	18 to 32 kg 40 to 70 lb	32 to 55 kg 70 to 121 lb	> 55 kg > 121 lb

- Handling and lifting of the product must be performed in accordance with the transportation and handling methods and personnel requirements specified in this manual.
- When manual handling is required, use the number of personnel specified in the relevant handling instructions and follow proper lifting techniques. Do not attempt to lift or move the product alone.
- When handling the product manually, appropriate personal protective equipment (PPE), including protective gloves and safety footwear, must be worn.
- When lifting or moving the product, hold it only by the designated handles or bottom structural edges. Do not lift or support the product by installed modules or internal components.
- Avoid impact, dropping, or tipping of the product during handling and transportation. Prevent scratching or damage to the enclosure, components, and cables.
- When mechanical lifting equipment such as a forklift is used, secure the product with appropriate lifting straps and follow the handling procedures specified in this manual.
- Keep all personnel clear of the product during lifting and transportation.

3.7 Prohibited Actions

DANGER

High-voltage DC hazards are present inside this energy-storage battery system. Only qualified Professional personnel are permitted to perform commissioning, maintenance, and troubleshooting.

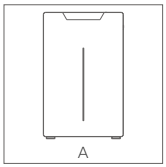
- Do not damage cables. If you damage a cable, it can cause a fire or electric shock.
  1. Do not modify or damage a cable.
  2. Do not place heavy objects on a cable or pull the cable.
  3. Do not place a heater near the cable, as this may cause the cable to overheat.
  4. Do not bend or compress a cable when installing it in a rack.
  5. When unplugging a communication cable, hold the plug and pull it out.
- Never disconnect power cables while the battery is under load or operating. Always complete the full power-off sequence described in Section 10.1 before touching any power terminals.
- Do not install the product in a confined or enclosed area without adequate ventilation. Heat may build up inside the module and cause a fire.

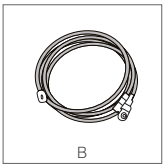
- Installation in living rooms, bedrooms, or other habitable indoor spaces is strictly prohibited.
- Do not place the unit in direct sunlight or near a heater. Doing so may cause deformation, malfunction, or fire. Pay extra attention when installing the unit near windows.
- Do not install the unit where the air is contaminated with excessive oil smoke, steam, moisture, or dust. Doing so may cause fire or electric shock.
- Do not block, modify, dismantle, or remove the venting valve. Keep the venting valve unobstructed at all times. Tampering with the venting valve may create a safety risk and void the warranty.
- When multiple batteries are connected in parallel, strictly follow the parallel wiring procedure in Section 7. Do not connect batteries with mismatched SOC levels.
- Do not place the unit upside down or sideways.
- Do not place the unit on a shag carpet, bed, or other unstable or unsuitable surface.
- Do not place objects on, stand on, or sit on the unit. Objects may fall and cause injury, or the unit may tip over or collapse.
- Do not attempt to disassemble, modify, or repair the battery module. There are no user-serviceable parts inside. All repair work must be performed by manufacturer-authorized personnel.
  If abnormal odor, noise, smoke, or overheating occurs, immediately power off all units, isolate the battery system, evacuate the area, and contact qualified service personnel. Do not attempt to open the battery enclosure.

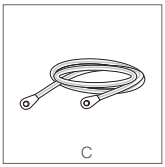
4. Unpacking and Storage

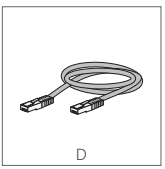
4.1 Scope of Delivery

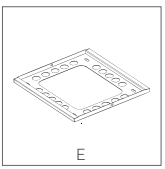
Check the scope of delivery for completeness and any visible external damage. Contact your supplier if the package is damaged upon delivery or is incomplete or damaged.

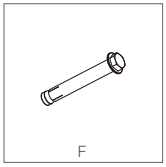

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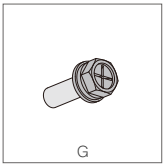

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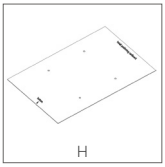

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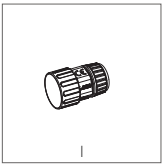

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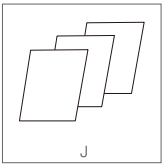

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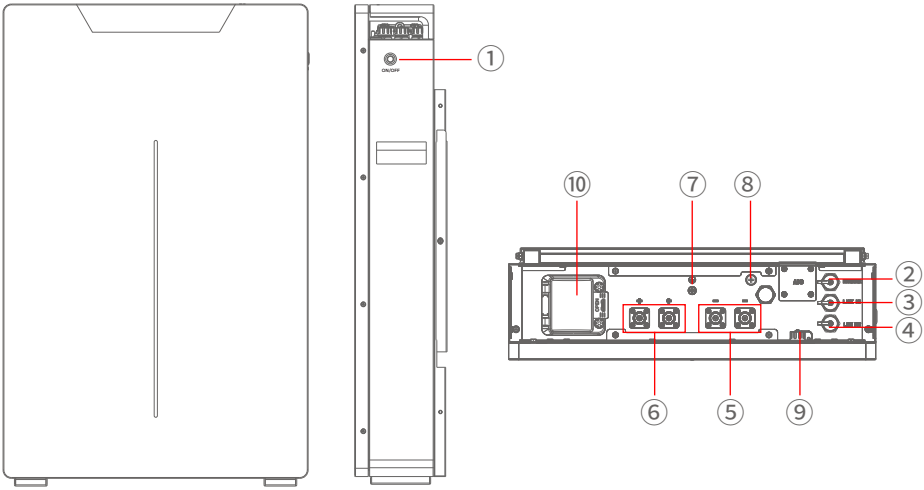

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Object	Item Name	Details	Quantity	Notes
A	Battery	PLPA-L1-10K2 550x165x867 mm	1 PCS	
B	Output Cable	Positive: red plug, 2 AWG, L: 1.5 m to SC50-10 ring terminal. Negative: black plug, 2 AWG, L: 1.5 m to SC50-10 ring terminal.	1 SET	Continuous current capacity: 60A
C	Grounding Cable	Ground cable yellow & green / L:1 m / double OT M6	1 PCS	
D	Communication cable	Standard network cable black / L:1.5 m / Double RJ45 Plug	1 PCS	
E	Back Plate		1 PCS	
F	Expansion Screw	M8*80 mm	4 PCS	
G	Screw	M5*16 mm	2 PCS	
H	Mounting Positioning Board		1 PCS	
I	RJ45 Waterproof Wiring Terminal		3 PCS	
J	Manual/Shipping List /Shipping Report		3 PCS	

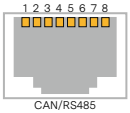
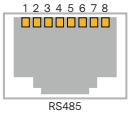
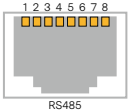
5. Product Overview

5.1 Interfaces and Functions



Number	Name	Details	Notes
1	Power Switch		Red LED: ALARM, Blue LED: RUN
2	INVERTER	RJ45	CAN communication to the inverter
3	LINK IN	RJ45	Internal RS485 communication between batteries
4	LINK OUT	RJ45	Internal RS485 communication between batteries
5	Port Negative x2	P-	Connected to the negative terminal of the inverter
6	Port Positive x2	P+	Connected to the positive terminal of the inverter
7	GND	M6	Yellow/Green, 10 AWG
8	Venting Valve		
9	Wi-Fi Socket		For Wi-Fi stick
10	125A DC Breaker x2		

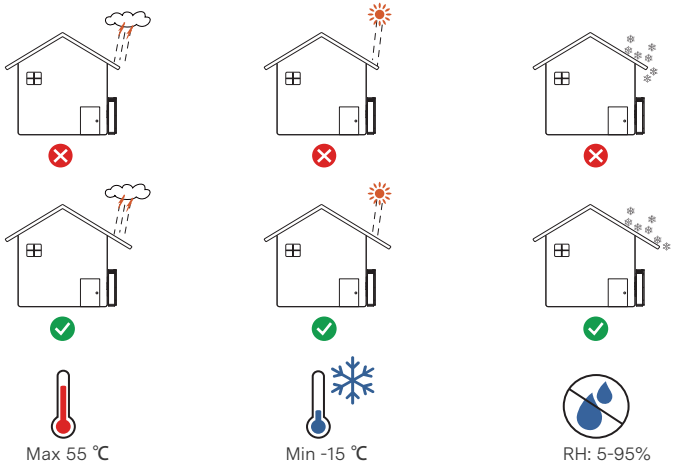
- RJ45 Port Pin Definition

View	Item	Description	1	2	3	4	5	6	7	8
 CAN/RS485	2	INVERTER	-	RS485-A	RS485-B	CAN-H	CAN-L	GND	-	-
 RS485	3	LINK IN	-	BMS-RS485-A	BMS-RS485-B	DI+	DI-	NC	BMS-CAN-H	BMS-CAN-L
 RS485	4	LINK OUT	-	BMS-RS485-A	BMS-RS485-B	DO+	DO-	NC	BMS-CAN-H	BMS-CAN-L

6. Mounting

6.1 Installation Environment Requirements

1. Ensure that the equipment is installed in a dry and well-ventilated environment.
2. The installation position must be away from direct sunlight and rain.
3. The installation position must be far away from fire sources.
4. The installation position must be far away from water sources such as taps, sewer pipes, and sprinklers to prevent water seepage.
5. Do not expose the equipment to flammable or explosive gas or smoke.
6. Humidity: 5-95%RH (non-condensing); Operating temperature: -15 °C ~ +55 °C.



6.1.1 Clearance & Ventilation Requirements

⚠ *WARNING*

Comply with AS/NZS 5139 for all installation clearances and ventilation requirements.

Separation distance from heat sources: Maintain a minimum horizontal clearance of 600 mm between this battery system and any heat-generating equipment, including hot water units, air-conditioning outdoor units, and gas heaters. Do not install the battery system beneath heat sources. Ensure the ambient temperature does not continuously exceed the battery's rated operating temperature range.

Clearances from the venting valve: The venting valve is located on the right-hand side of the unit. Maintain a minimum 200 mm clearance from the venting valve to a solid wall surface, and a minimum 600 mm horizontal clearance from the venting valve to building ventilation openings, windows, doors, escape routes, and other unrelated equipment. These clearances shall remain unobstructed for airflow, service access, and emergency gas venting.

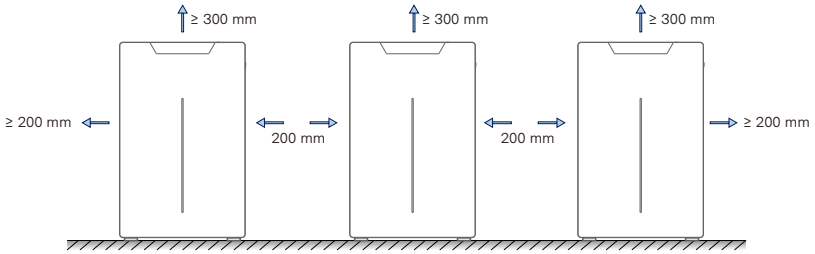
Installation location and ventilation: The PLPA-L1-10K2 battery is suitable for indoor installation in garages or utility rooms only, as well as outdoor installation. This unit adopts natural convection cooling. Keep all ventilation paths unobstructed, and do not cover, enclose, or block the venting valve. Under normal operating conditions, no hazardous toxic gas is released. In the unlikely event of a thermal-runaway fault condition, toxic and irritant gases may be discharged through the venting valve.

For indoor installation: The installation room must have a permanent natural ventilation opening to the outside atmosphere to disperse vented gases. DO NOT install the battery inside habitable rooms, including bedrooms, living rooms, studies, or kitchens, in accordance with AS/NZS 5139.

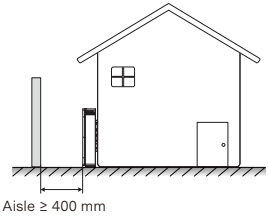
NOTICE

Installation must be completed by Professional installers and comply with AS/NZS 3000, AS/NZS 5139, and applicable local state regulations.

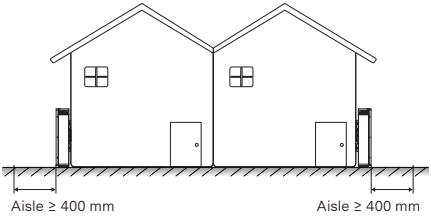
6.2 Wall Mounting Steps



Practical application contexts:

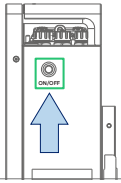


- For a detached house:
  400 mm where the hallway batteries installed for pedestrian access.



- For a duplex and semi-detached house:
  Where only one hallway is available for pedestrian access, reserve a minimum clearance of 400 mm when installing batteries.

After opening the box, perform a power on test. Firstly, the blue light will flash continuously, followed by a red light that will flash once. After that, the battery will enter a normal working state, and the blue light will continue to flash.



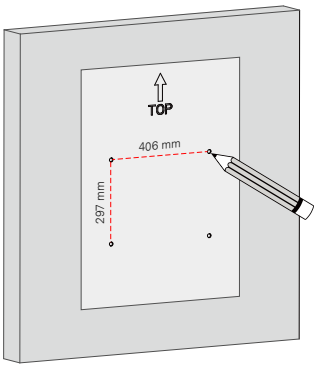
CAUTION

- The walls may contain electrical cable or pipes (for example, gas or water). Ensure that power cable or pipes are not damaged when drilling.
- Injuries may result if the product is lifted incorrectly or dropped while being transported or mounted.
- Wear suitable personal protective equipment, in accordance with local regulations, when working on the product.

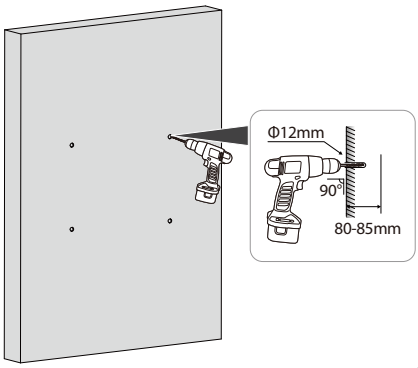
NOTICE

- Expansion bolts are mainly used for solid brick-concrete walls and concrete floors. If you choose other types of walls and floors, ensure that they meet the load-bearing requirements and select the bolts yourself.
- Ensure that the mounting locating plate is level with the floor.

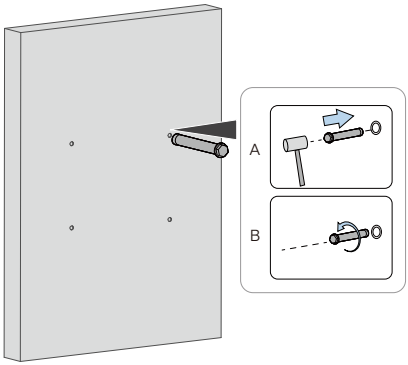
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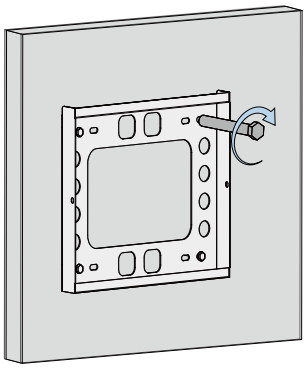
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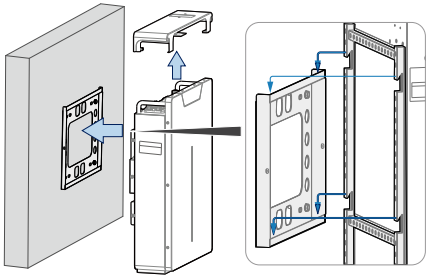
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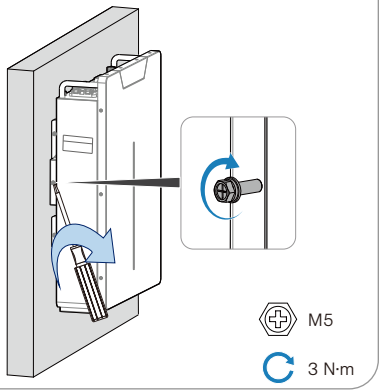
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5



6



7. System Diagram

Install an isolation device (i.e. a circuit breaker) between the inverter and the battery system to provide overcurrent protection for both the positive and negative conductors.
When multiple batteries are connected in parallel, each battery must be equipped with a two-pole isolation device.

Before installation, observe the following requirements:

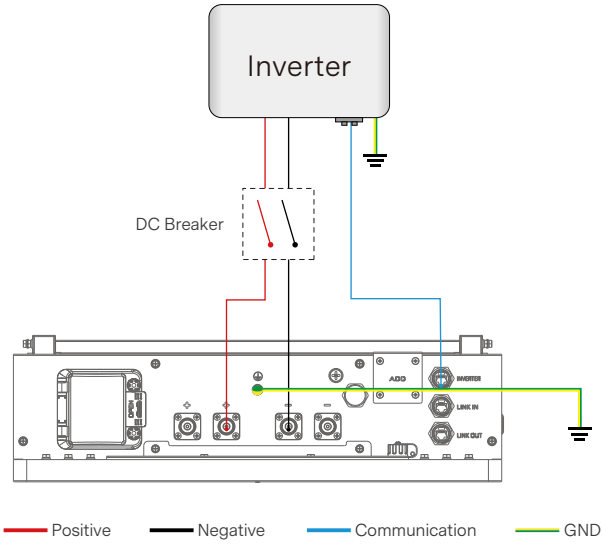
1. Before making any electrical connections, ensure that the battery circuit breaker/power switch and all switches connected to the energy storage system are in the OFF position. Otherwise, electric shock may occur.
2. The installation cable shall be routed through a 2-inch conduit.
3. Parallel connection cables must be purchased separately.

The steps for installing the isolation device are as follows:

1. Use terminals to connect the wiring harness to the isolation device.
2. Insert the wiring harness terminals into the connection ports of the isolation device. Ensure that the positive and negative terminals are connected correctly. Refer to the isolation device specifications for details.
3. Tighten the terminal screws securely to fix the wiring harness in place.

Note: Before installation, verify that the battery power switch is OFF and confirm that the

7.1 Single Unit

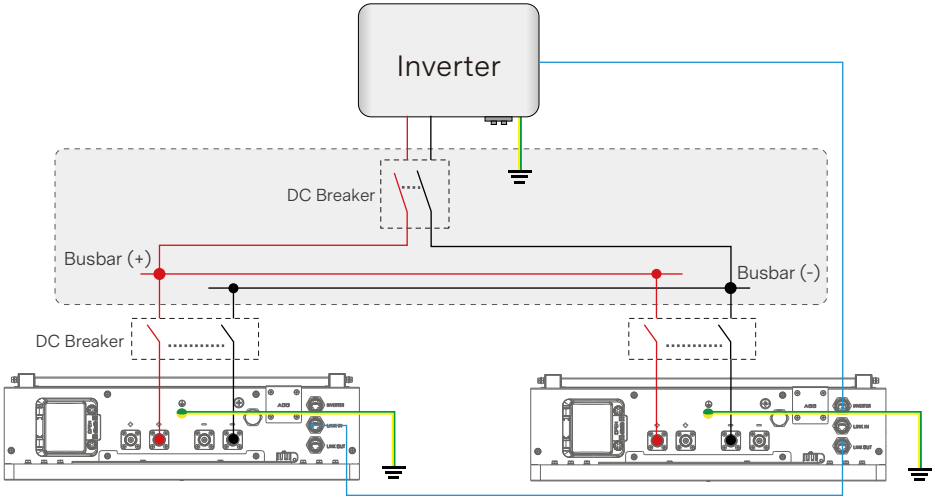


NOTICE

1. The rated output power of the cable connection is 6 kW.
2. Install circuit breakers based on local regulations.

7.2 Two (2) Batteries in Parallel Connection

With Busbar

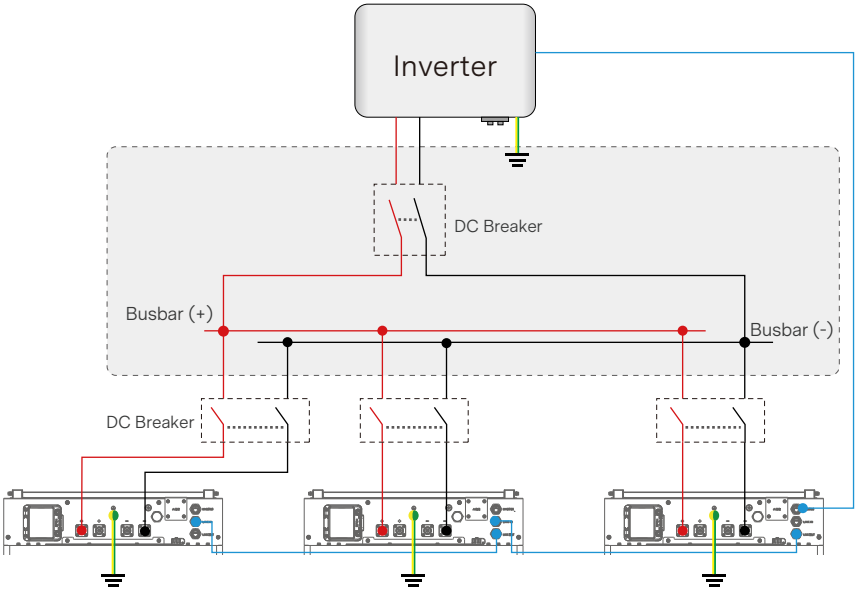


NOTICE

1. The method of cable connection with a bus-bar will output a power of 2 x 6 kW =12 kW.
2. Install circuit breakers based on local regulations.

7.3 Three (3) Batteries in Parallel Connection

Left and right parallel battery

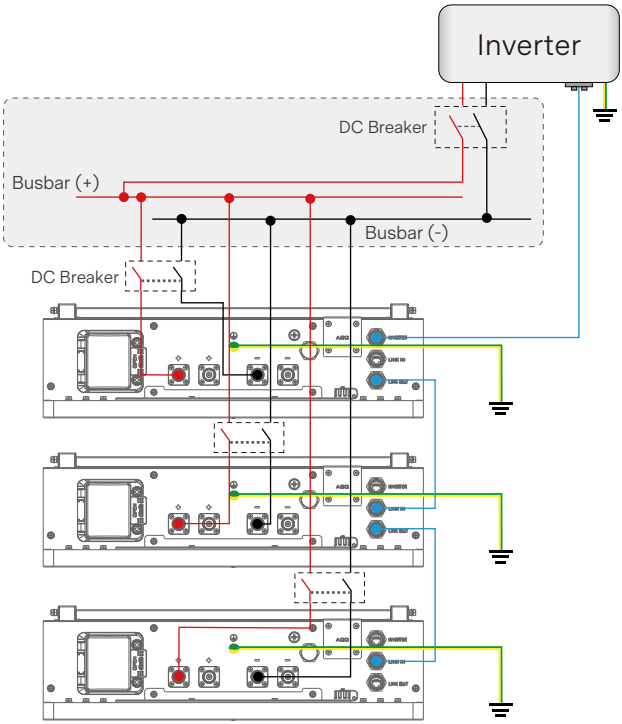


NOTICE

1. The method of cable connection with a bus-bar will output a power of 3 x 6 kW =18 kW.
2. Max. number of parallel units: 8. Note that recommended continuous charge and discharge power is 48 kW.
3. Install circuit breakers based on local regulations.

Front and rear parallel battery

H203 accessories are used for front and rear stacking, with a distance of 40 mm/1.57 in between the chassis.

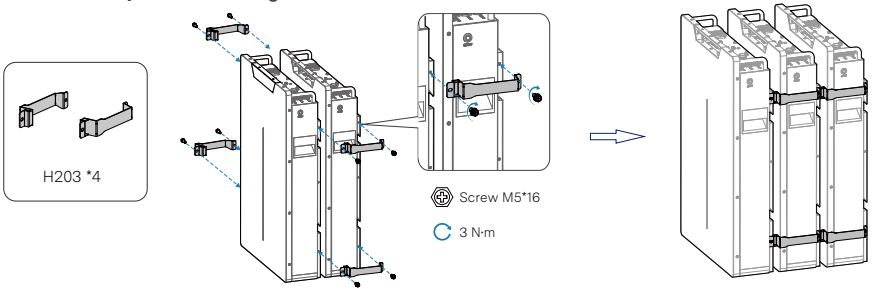


NOTICE

1. The method of cable connection with a bus-bar will output a power of 3 x 6 kW =18 kW.
2. Max. number of parallel units: 8. Note that recommended charge and discharge power is 48 kW continuous.
3. Install circuit breakers based on local regulations.

*If multiple batteries are connected in parallel (≥ 4 units), please consult the supplier's engineer.

H203 Accessory Installation Diagram

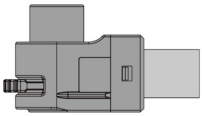


8. Electrical Connection

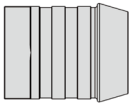
8.1 Requirements for the Electrical Connection

8.1.1 Power Cable

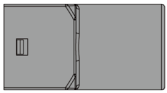
Material List (plug components may be purchased separately from the supplier.)



Plug sub assembly

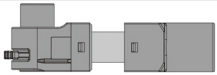
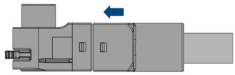


Cable sealing ring



Plug protection cover

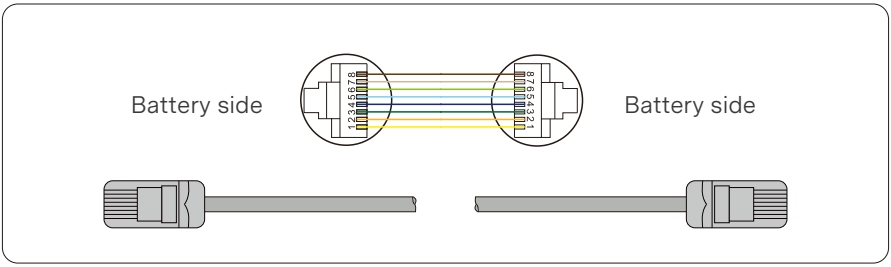
Steps:

Procedure	Schematic picture
1. Route the cable through the isolation cable sealing ring and Plug protection cover.	
2. Remove 13 mm of insulation at the end of the cable.	
3. The red plug is used for the positive, and the black is for the negative power cable. The end of the cable is crimped at the terminal using a crimping clamp.	
4. Tighten the isolation cap and plug contact.	
5. Put the positive and negative plug on to the system and tighten them.	
6. Use isolation cap for unused DC plug.	

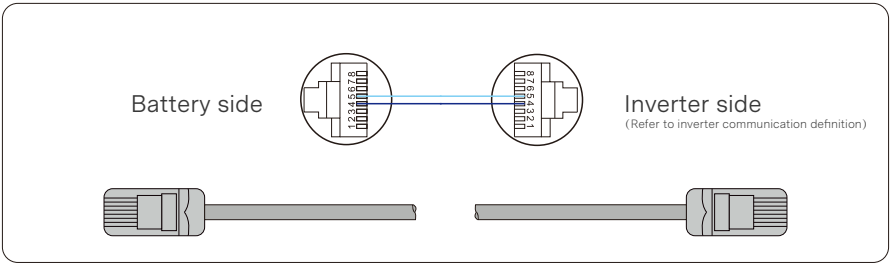
8.1.2 Communication Cable

Battery to Battery Communication Cable.

Pin definition as below, alternatively a standard straight CAT5 Ethernet cable can be used.



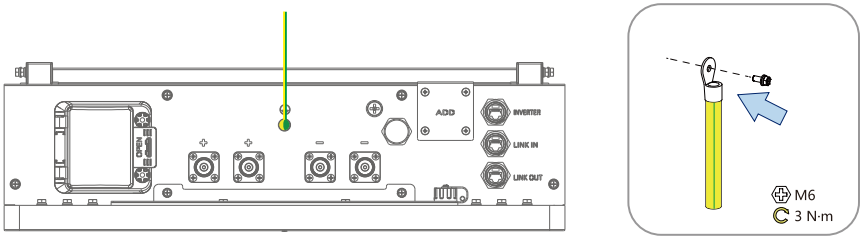
Battery to Inverter Communication Cable



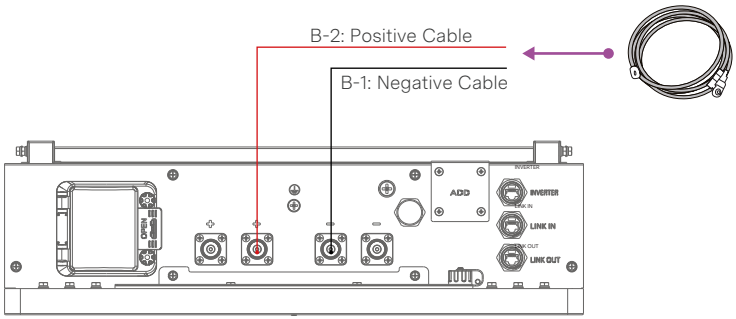
During installation, please turn off the battery power switch and check whether the power is off. The cable from the circuit breaker to the inverter is provided by the installation personnel (please refer to the Product Packaging List for cable specifications).

8.2 Electrical Connection Steps

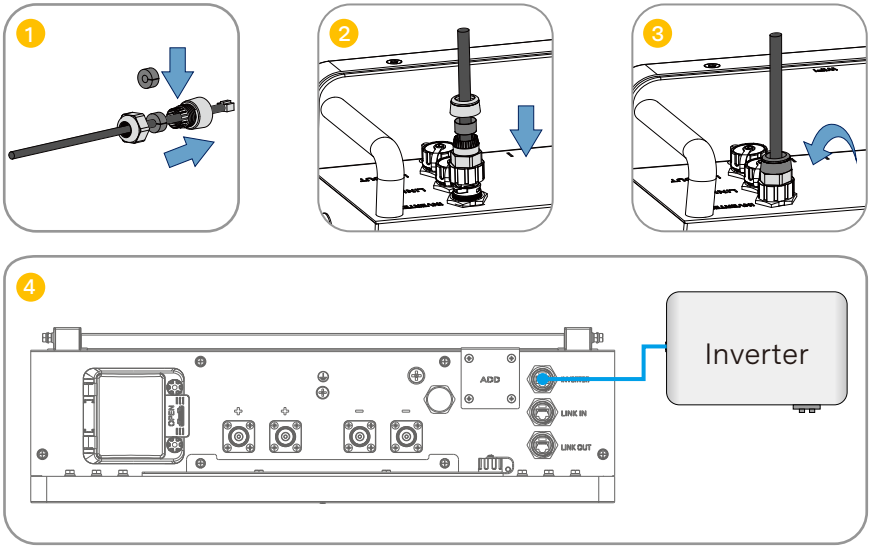
Step 1: Ground Cable Connection



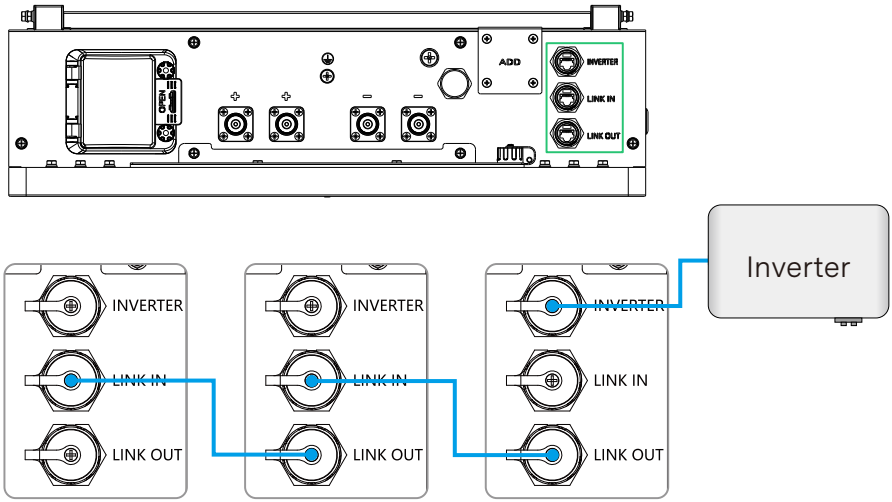
Step 2: Power Cable Connection (Single Unit)



Step 3: Communication Cable Connection (Single Unit)



Step 4: Communication Connection (Parallel Connection)



NOTICE

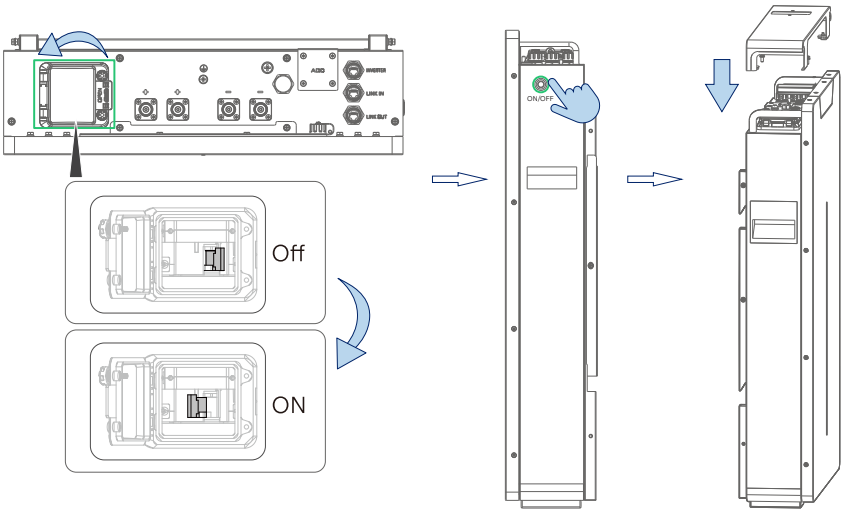
- Make sure to turn off the batteries before connecting them with the parallel cable; otherwise, the batteries may fail to connect in parallel.

Step 5: Battery Activation

NOTICE

Failure to turn on all circuit breakers between the battery and inverter before turning on the battery power switch will cause the pre-charge/soft-start functionality not to function. This would cause very high currents to flow between the inverter and battery for a short duration, potentially damaging the battery, inverter or wiring.

1. Open the cover of the circuit breaker and turn on the circuit breaker.
2. Turn on the power switch. After five seconds, a blue indicator flashes, indicating that the operation is normal.
3. Put on the cover.

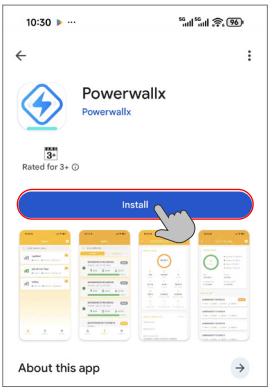
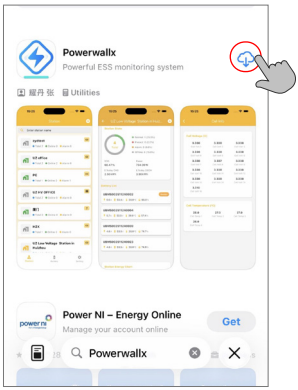


State	Standby	Charge	Discharge	Failure
Standby				
Remarks	Light 0.25 S / Lights out 3.75 S	Light 0.5 S / Lights out 0.5 S	Lights stay on	Flicker/Persist
	When the battery starts up, the red and blue lights alternately flash, indicating that the battery self-test is normal.			

9. Communication and App Configuration

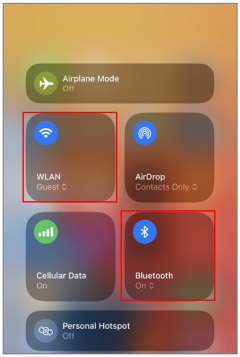
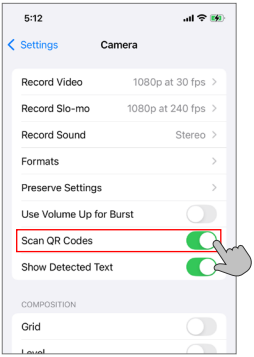
9.1 App Download and Installation

Choose the download method based on your phone's operating system.

Android	iOS
If your phone supports GMS, download "**Powerwallx**" from Google Play. If it does not support GMS, install the APK file directly. 	Search for "**Powerwallx**" in the App Store and download it. 

9.2 App Permissions

When you open the app for the first time, allow the following required permissions.

Wi-Fi & Bluetooth	Camera
Turn on Wi-Fi and Bluetooth. 	Enable camera permission for QR code scanning. 

9.3 Connection Modes

Remote Control	Local Connection
Uses Wi-Fi for remote device monitoring and control. Account login, device binding, and network configuration are required.	Use Bluetooth to connect to and control nearby devices directly. No device binding is required.

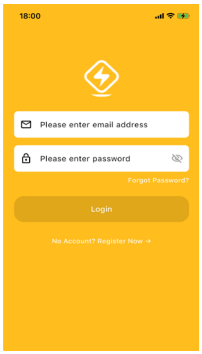
9.4 App Setup and Device Connection

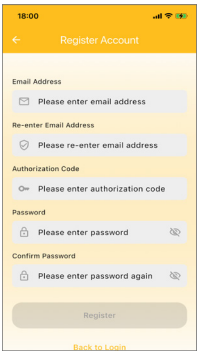
9.4.1 Account Registration and Login

Registration:

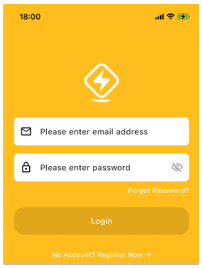
1. Enter Email
2. Enter Invitation Code
3. Set Password
4. Tap “Register”

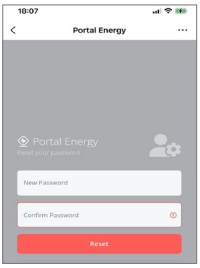
Note: Get the invitation code from the UZ team or your distributor.
UZ Invitation Code: hAGgv9XG6cxJz6CErE6QTA





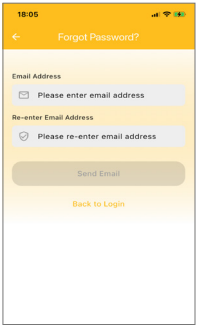
- **Login:**
  Enter Email & Password → Tap Login



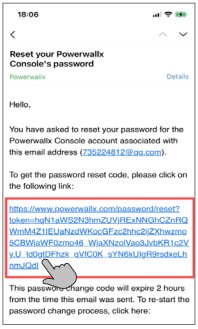


- **Reset Password**:
  Tap “Forgot Password” and enter your email.
  Open the reset link in the email and set a new password.

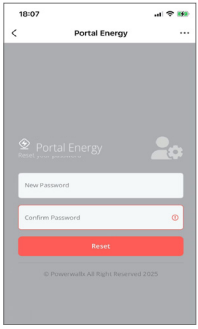
1. Enter Email



2. Open Reset Link



3. Set New Password

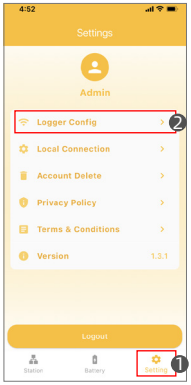


9.4.2 App Login

- **Login:** Log in with your registered email and password.

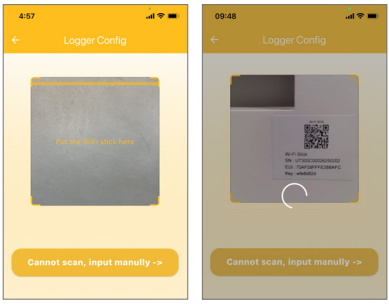
9.4.3 Wi-Fi Configuration

- **Open Logger Config:**
  Connect the Wi-Fi dongle to the battery. The Wi-Fi dongle's red LED will flash quickly when powered on in an unconfigured state.
  In the app, select “Logger Config” under “Settings”.

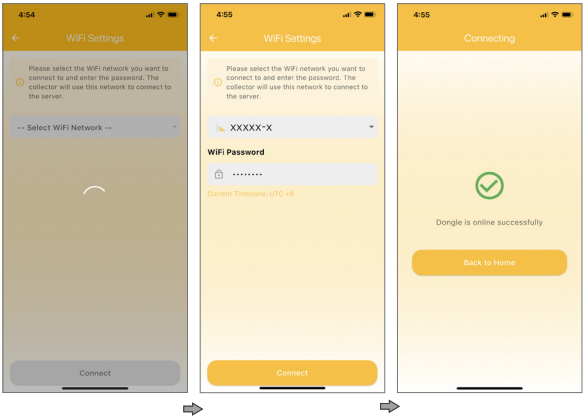


> **NOTICE**
>
> This step requires Bluetooth and Wi-Fi to be enabled on the phone; otherwise, the search and subsequent network configuration cannot be completed.

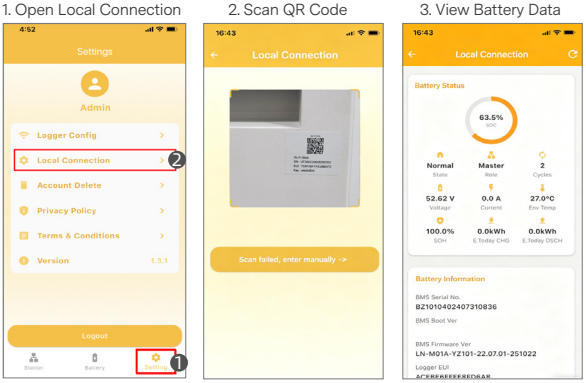
- **Scan the QR Code:**
  Align the Wi-Fi dongle QR code with the scanning frame.



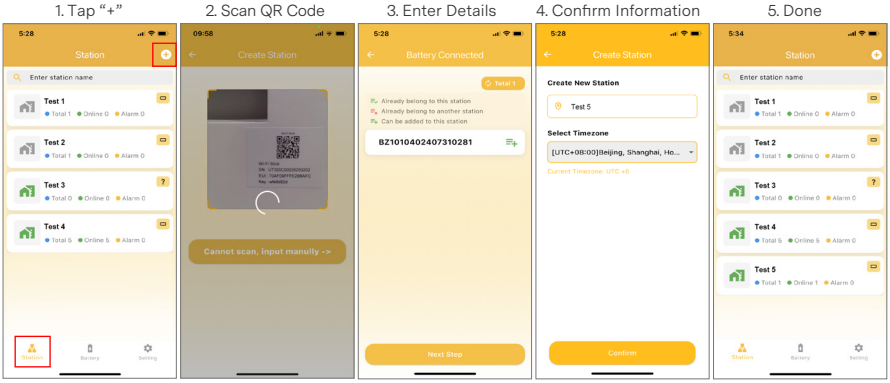
- **Connect to Wi-Fi:**
  Select your local Wi-Fi network in the pop-up window, enter the Wi-Fi password, and click “Connect”.
  When network configuration is complete, the Wi-Fi dongle lights up with a breathing green light.



- **Local Connection:**
  Go to Settings > Local Connection, scan the QR code on the Wi-Fi dongle, and view the battery information.

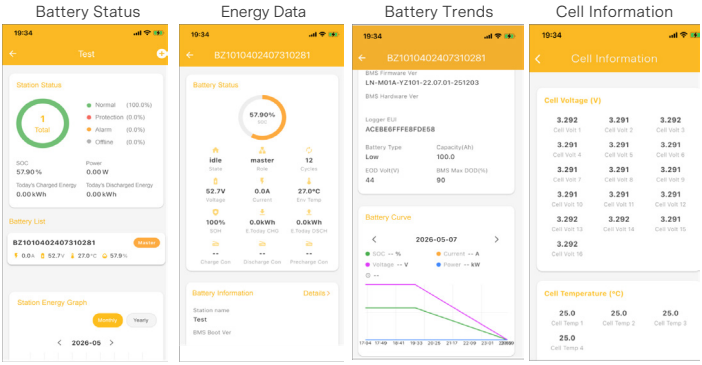


- **Create Station:**
  Tap “+”, scan the QR code on the Wi-Fi dongle, enter the station information, and tap Create.



9.5 Battery Monitoring

View real-time battery status, energy data, trends, and cell information.



10. Routine Maintenance

10.1 Maintenance Safety Precautions

⚠ *WARNING*

Before performing any maintenance work, including inspection of electrical connections:

1. Switch OFF the battery unit ON/OFF switch.
2. Open and switch OFF the internal 125 A DC breaker of the battery unit.
3. Disconnect the external DC circuit breaker between the battery and inverter, and ensure a zero-voltage state at all power terminals.
4. Only qualified Professional personnel shall carry out maintenance.
5. For parallel-connected multi-battery systems, all battery units must be fully powered off before any wiring inspection.

Inspection of electrical connections:

Check all DC power terminals, communication connectors, and earthing connections for tightness, corrosion, overheating marks, or discoloration. Re-torque terminals according to specification if loose. Check cable insulation for scratches, cracks, or damage. Stop operation immediately if any damage is found.

10.2 Cleaning Instruction

Risk of unit damage from water ingress.

- Do NOT spray water, use a high-pressure cleaner, or apply liquid detergent directly to the battery unit.
- Clean the external cabinet surface only with a dry, soft, lint-free cloth.
- Do not use solvents, alcohol, corrosive, or abrasive cleaning agents.
- Keep the venting valve free of dust, debris, and obstruction; do not dismantle or block the venting valve.

To ensure the long-term running of the energy storage system, you are advised to maintain batteries regularly.

Check content	Inspection method	Maintenance cycle
System cleanliness	Check whether the appearance of the system is damaged or deformed.	Once every 6 to 12 months
System running state	1. Check that the battery does not generate abnormal sound when it is in operation. 2. Check that the battery parameters are correctly set when the battery is running.	Once every 6 months
Electrical connection	1. Check that cables are secured. 2. Check that cables are intact, and that in particular, the parts touching the metallic surface are not scratched.	Once every 6 months
Ground reliability	Check that ground cables are securely connected.	The first inspection is 6 months after the initial commissioning. From then on, the interval can be 6 to 12 months.

11. Decommissioning and Disposal

11.1 Decommissioning

Before decommissioning the battery system, all operations shall be performed by qualified personnel in accordance with local regulations and applicable safety standards.

1. Switch off the system using the power switch and confirm that all status indicators (LEDs) are off.
2. Disconnect the system from all external power sources, including the inverter, grid, and loads, and switch off all related DC and AC circuit breakers.
3. After shutdown, wait at least 5 minutes to allow internal capacitors to fully discharge.
4. Disconnect all power and communication cables in the reverse order of installation, and protect all connectors against short circuits.
5. If the battery shows signs of damage (such as deformation, leakage, overheating, smoke, or abnormal odor), immediately stop operation and isolate the battery. Do not open, disassemble, or attempt to repair the battery. Contact the installer, distributor, or manufacturer for further instructions.
6. Store decommissioned batteries in a dry, well-ventilated location, protected from moisture, direct sunlight, high temperatures, and mechanical impact.

11.2 Disposal

This section specifies mandatory legal and environmental requirements for the disposal of used or decommissioned batteries.

- Batteries, including rechargeable batteries, must not be disposed of with household or general waste.
- Used or damaged batteries shall be delivered to authorized collection or recycling facilities in accordance with applicable local regulations.
- Batteries may contain hazardous substances as well as valuable recyclable materials; improper disposal may harm human health and the environment.
- During storage and transportation, batteries shall be protected against short circuits, leakage, and mechanical damage.





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