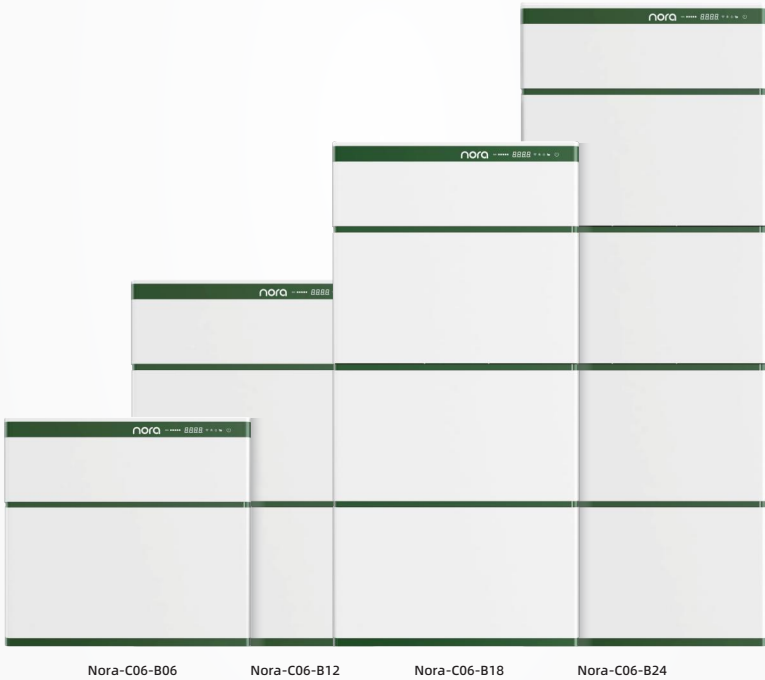


EMBRACE INTELLIGENT POWER, BUILD A BETTER TOMORROW



## Battery Energy Storage USER MANUAL



## Revision History

Revision history documents the changes made in the user manual. The latest publication includes all updates from previous versions.

Issue REV . 1 (2023-08-07)    This version marks the first official issue.

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## Overview

This manual elaborates on the product profile, use cases, installation and commissioning, system maintenance and technical specifications of energy storage systems:

Pack: Nora-B06

PDU : Nora-C06

System: Nora-C06-B06 Nora-C06-B12 Nora-C06-B18 Nora-C06-B24

## Intended Readers

This document is intended for:

- Sales Engineers
- System Engineers
- Technical Support Engineers
- End Users (Users are prohibited from the operations specified in the manual that must be done by licensed technicians.)

## Meaning of Symbols

To ensure personal and property safety during installation and to enhance the user experience, this manual explains the meaning of industry-standard symbols. It includes the following types of warnings—please read them carefully before proceeding with installation.

### **Danger**

Failure to follow these instructions may result in death or severe injury.  
This indicates a high level of risk.

### **Warning**

Failure to follow these instructions may result in death or severe injury.  
This indicates a moderate level of risk.

### **Caution**

Failure to follow these instructions may result in minor or moderate injury.  
This indicates a low level of risk.

### **Instruction**

Instructions provide additional information to the key content of the manual.  
They are not related to personal injury, equipment damage, or environmental impact.

## Meaning of Warning Signs



Caution! Risk of electric shock



Keep away from flammable materials



Danger



Do not short circuit the battery



Be careful of fire



Do not install or disassemble by non-professionals



Hot surface



Install the product out of the reach of children



After power failure, there is a delay in discharging the components.  
Please wait for 10 minutes until the equipment is completely discharged.



Do not throw away this product, and it shall be sent to the designated recycling place.



Do not dispose of this product with residential waste.



Recyclable



Read the instructions carefully before installation and use



CE certification

## Definition of Abbreviation

Abbreviation	Full Name	Abbreviation	Full Name
FPC	Flexible Printed Circuit	SOC	State Of Charge
BMS	Battery Management System	BM	Battery Module
BMU	Battery Management Unit	PCS	Power Conversion System
BOL	Begin Of Life	EOL	End Of Life
Bus-bar	Current Connection Between Cells	OCV	Open Circuit Voltage
CAN	Controller Area Network	S/G	Switch Gear

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# 1

## Safety

### Statement

- Please thoroughly read this manual and strictly adhere to the procedures and safety instructions depicted on the equipment or in this manual prior to transportation, storage, installation, operation, and maintenance.
- In this manual, "Equipment" and "Product" refer to the products, software, components, spare parts, or services related to the contracted product. The term "Company" refers to the manufacturer, seller, or service provider of the equipment. "User" represents the individual or entity responsible for transporting, storing, installing, operating, using, or maintaining the equipment.
- The terms "Danger," "Warning," "Caution," and "Notice" in this manual do not encompass all safety instructions that should be observed. Users must also comply with relevant international, national, or regional standards and industry practices.
- The company shall not be held responsible for any loss resulting from non-compliance with safety instructions in the design, production, or use of the equipment.
- The equipment must be operated in an environment that complies with the design specifications.
- Failure to do so may result in malfunctions, system faults, or damage to components or parts, which are not covered by the equipment's quality guarantee.
- Operating the equipment in an environment contrary to the design specifications may lead to personal injury, death, or property loss, for which the company shall not bear any responsibility. comply with applicable laws, regulations, standards and specifications.
- It is prohibited to reverse engineer, decompile, disassemble, adapt, and implant the equipment-software. It is not allowed to study the internal logic of the equipment in any means, obtain the source code of the equipment software and infringe intellectual property rights. It is not permitted to disclose the results of any equipment software performance test.

**The Company shall not be liable for any of the following circumstances or their consequences:**

- Equipment damage caused by force majeure events, such as earthquakes, floods, volcanic eruptions, debris flows, lightning strikes, fires, wars, armed conflicts, typhoons, hurricanes, tornadoes, extreme weather, etc.
- Failure to operate the equipment in accordance with the operating conditions specified in the product manual.
- Failure to follow the operation and safety instructions exhibited in this manual.
- Unauthorized disassembly or change of the product or its software code.
- Damage resulting from improper storage of the product, contrary to the guidelines in this manual.
- Installation and working environments that do not comply with relevant international, national, or regional standards.
- Installation and operation of the product by unqualified personnel.
- Use of materials and tools that do not comply with local laws, regulations, and relevant standards during operation or maintenance of the product.
- Damage incurred during transportation by a third-party freight forwarder commissioned by the user.
- Damage caused by the negligence, fault, vandalism, improper operation of the user or a third party, or by factors unrelated to the company.

## 1.1 Personal Safety

### Danger

- Ensure that the power is off during installation. Do not install, disassemble, or connect the equipment while the power is on. Power-on installation may generate electric arcs, sparks, or flames, potentially causing explosions, fires, or personal injury.
- When the equipment is powered, operate it correctly to avoid risks of fire, electric shock, or explosion, which could result in injury or property damage.
- It is strictly prohibited to wear conductive accessories, such as watches, bracelets, bangles, rings, or necklaces during operation, to prevent the risk of electric shock.
- During operation, always use appropriate protective equipment, including protective clothing, insulated shoes, goggles, safety helmets, and insulated gloves. Additionally, use specialized insulation tools to prevent electric shock or short circuits.
- The level of insulation resistance and withstanding voltage must comply with local laws, regulations, standards, and specifications.

### Warning

- Do not disable equipment protection devices, and always heed the warnings, cautions, and precautions provided in the manual and on the equipment.
- If, during operation, you encounter any fault that could cause personal injury or equipment damage, stop the operation immediately, report the issue to the person in charge, and implement effective protective measures.
- Do not power on the equipment until it has been installed and inspected by a qualified professional.
- Avoid direct contact with power supply equipment or conductive materials, such as damp objects. Before touching any conductor surface or terminal, measure the voltage at the contact point to ensure there is no risk of electric shock.
- During operation, the casing or enclosure may become hot, posing a risk of burns. Do not touch it.
- In the event of a fire, evacuate the building or area where the equipment is located, activate the fire alarm, or report the fire. Re-entry into the area of the burning building or equipment is strictly prohibited under any circumstances.

**Requirements for Installers:**

- The personnel responsible for the installation and maintenance of the equipment must have been sufficiently trained and proven the mastery of the correct operation, the safety precautions and local standards of the country/region.

**Professional:** a trained, experienced technician who is proficient in the principle and structure of the equipment and understands the potential sources and levels of hazards during the installation, operation and maintenance of the equipment.

**Trained person:** a trained, experienced technician who is aware of the potential hazards during operation and can minimize the hazards to herself/himself and others.

- Only qualified professionals or trained personnel are allowed to install, operate and maintain, remove
- safety facilities and overhaul equipment.
- Personnel who will perform special tasks such as electrical operation, aerial work and special equipment operation must have the relevant qualification required by the local country/region.
- Only authorized professionals are allowed to replace the equipment or parts (including software) .
- Access to the equipment is authorized to the installer or O&M operator only.

## 1.2 Electrical Safety

### Danger

- Before making electrical connections, make sure that the equipment is not damaged, as any damage could result in electric shock or fire.
- Improper or incorrect operation may lead to accidents such as fire or electric shock.
- During operation, prevent foreign objects from entering the equipment, as this could cause a short circuit, equipment damage, reduced power output, power failure, or personal injury.
- When installing the equipment, connect the protective ground (PGND) cable first. When removing the equipment, disconnect the PGND cable last.

### Warning

- The product must be installed, operated and maintained according to the procedures in the manual. Do not violate the step-by-step procedure in the manual amid installation without authorization.
- It is necessary to obtain permission from the grid department of the country or region before grid-connection.
- Before installing and removing the power cable, disconnect the equipment itself and its front and rear switches.
- Grid connection and operation require approval from the national or regional electricity authority.
- Before operating the equipment, verify that the tools being used meet the necessary requirements and are properly logged. After the operation, ensure no tools are left inside the equipment.
- Before installing the power cable, make sure that the cable label is correct and the cable terminal is insulated.
- When installing the equipment, use a torque tool with an appropriate range to tighten screws. Ensure the wrench is not skewed and that the torque error does not exceed 10% of the specified value. Screws must be secured with torque tools and double-checked using red and blue markings.
- After installation, verify that all electrical components, protective covers, insulating sleeves, and other safety devices are properly in place to avoid the risk of electric shock.

 **Warning**

- During maintenance, hang a "Do Not Switch On" sign on both upstream and downstream switches or circuit breakers, along with a warning sign to prevent accidental reconnection.
- The equipment should only be powered on after all troubleshooting is complete.
- If power must be cut off for maintenance, follow these safety measures: Power off > Verify no electrical current > Install grounding wire > Hang warning signs and set up barriers.
- Only qualified professionals are permitted to open the internal components of the equipment.
- Regularly inspect the equipment's connection terminals to ensure that all screws are securely tightened.
- Regularly check the equipment cables for any signs of damage. Damaged cables must be replaced by professionals to avoid potential risks.
- Do not alter, damage, or obstruct the signs and nameplates on the equipment. Replace any worn signs promptly.
- Do not use solvents such as water, alcohol, or oil to clean the electrical components inside or outside the equipment.

## 1.3 Battery Safety

### Danger

- Do not short circuit the positive and negative terminals of the battery, as this can result in a short circuit. A battery short circuit can generate high currents and release significant energy, potentially causing the battery to leak, smoke, emit flammable gases, undergo thermal runaway, catch fire, or explode.
- Never attempt to maintain the battery while it is powered on, as this can cause a short circuit.
- It is strictly forbidden to expose the battery to high temperatures or place it near heat sources, such as direct sunlight, open flames, transformers, or heaters. Overheating can lead to battery leakage, smoke, release of flammable gases, thermal runaway, fire, or explosion.
- Avoid contact between the battery terminals and metal objects, which could cause heating or electrolyte leakage.
- Only use batteries recommended by the manufacturer and sourced through authorized channels. Incorrect use or replacement of batteries may lead to fire or explosion.
- The battery is a sealed system and should not release gases under normal operation.
- However, in extreme cases—such as burning, crushing, lightning strikes, overcharging, or other severe conditions that may lead to thermal runaway—the battery may be damaged, resulting in electrolyte leakage or the release of gases such as CO and H<sub>2</sub>. To prevent damage or corrosion to equipment, ensure that flammable gases are properly vented.
- Non-professionals should avoid approaching the site of a battery accident, as the electrolyte is toxic and volatile. Immediately contact a professional for assistance.
- If a battery leak occurs, professionals should wear appropriate safety gear, including goggles, rubber gloves, gas masks, and protective clothing. They should promptly deenergize the equipment and remove the leaking battery. Additionally, contact a technical engineer or the after-sales department for further assistance.

### Warning

- Before storage, transportation, and unpacking, ensure that the outer packaging is intact and that the battery is positioned correctly according to the markings on the packaging box.
- Do not place the battery upside down, sideways, vertically, or at an angle. Stack the batteries according to the stacking instructions on the outer package to prevent them from falling or being damaged.

 **Warning**

- If the equipment has multiple inputs, disconnect all inputs and ensure the equipment is completely powered off before proceeding with any operations.
- Before performing maintenance on loads or power distribution devices, turn off the output switch on the power supply equipment.
- Install batteries in areas well away from liquids. Avoid placing them in locations prone to water leakage, such as near air conditioning outlets, vents, windows, or water pipes. Ensure that no liquid enters the equipment to prevent system failure or short circuits.
- Tighten the fastening screws of the copper bar or cable according to the torque specifications in the manual. Regularly inspect the screws to ensure they remain tight and check for signs of rust, corrosion, or other anomalies. Failure to properly secure the screws can result in excessive voltage drop at the connection, and in high-current situations, may even cause the battery to ignite.
- After the battery is discharged, recharge it promptly to prevent damage from over-discharge.

## 1.4 Environmental Requirements

### Danger

- The installation and operating environment must comply with local laws, regulations, and relevant international, national, and regional standards for Li-ion batteries.
- Do not place or operate the equipment in environments containing flammable or explosive gases or smoke.
- Avoid installing or operating the equipment in humid environments, near water sources, or in proximity to chemical industries.
- Keep flammable and explosive materials away from the equipment.
- Do not place the equipment near heat sources or open flames, such as fireworks, candles, or heaters, as these could cause system failure or fire.
- Do not install the equipment in moving environments such as ships, trains, or automobiles.
- Avoid installing the equipment in environments with metal conductive dust, magnetic dust, direct sunlight, excessive dust, smoke, volatile gases, corrosive gases, infrared radiation, organic solvents, or salty conditions.

### Warning

- The equipment must be installed in an area far from any sources of liquid. It is strictly prohibited to install it under water pipes, air outlets, or other areas prone to condensation.
- Avoid installing the equipment under air conditioning vents, ventilation outlets, cable exits, or any locations susceptible to water leakage, to prevent liquid from entering the equipment and causing failure or short circuits.
- When the equipment is in operation, do not obstruct the vents, cooling system, or other components, as this can lead to overheating and potentially damage the equipment or cause a fire.
- The installation site should be out of the reach of children and located far from living and working areas, including but not limited to: studios, bedrooms, living rooms, music rooms, kitchens, studies, game rooms, home theaters, sunrooms, bathrooms, showers, laundry rooms, and attics.
- When the equipment is running, the enclosure and heatsink fins may become very hot. Do not install the equipment in easily accessible locations.

 **Warning**

- Avoid installing, using, or operating outdoor equipment and cables during severe weather conditions such as thunderstorms, rain, snow, or winds above Grade 6. This includes but is not limited to handling equipment, operating cables, connecting or disconnecting outdoor signal interfaces, working at heights, outdoor installations, and opening doors.

 **Caution**

- If the product is to be installed in a garage, it must be positioned away from areas where vehicles enter, exit, or park. It is recommended to wall-mount the product above the height of vehicle bumpers to prevent accidental collisions.
- Do not install the product in locations susceptible to water damage, such as low-lying areas.
- Precautionary measures must be taken when installing in regions prone to frequent natural disasters, such as floods, debris flows, earthquakes, or typhoons.
- It is strictly forbidden to install the product in high salinity environments, as this may cause corrosion. High salinity environments include areas within 500 meters of the coast or locations with strong sea winds. The impact of sea winds may vary depending on meteorological conditions (e.g., typhoons, monsoons) or terrain features (e.g., dams, hills).
- Install the product in a sheltered location or provide a sunshade to protect it from direct sunlight and rain. The product should be installed on solid ground, avoiding areas with
- rubber soil, soft soil, or subsidence. Installation in low spots prone to water accumulation or snow is strictly prohibited. The installation site should be higher than the highest recorded water level in the area.
- If installing in a vegetated area, clear the vegetation and consider hardening the ground with cement or gravel.
- Before installation, operation, and maintenance, ensure that water, ice, snow, or other debris is cleared from around and on top of the product.
- Ensure the surface of the installation site is solid enough to support the product before installation.
- After installation, remove all packaging materials, including cartons, foam, plastic, and cable ties.

## 1.5 Mechanical Safety

### Danger

- When working at heights, wear a safety helmet and a safety belt or waist rope, ensuring it is securely fastened to a solid structure. Do not attach the hook to moving or unstable objects, or to metal objects with sharp edges or corners, to prevent slipping and falling.

### Warning

- Do not use tools that are defective, substandard, or beyond their validity period. Always use firm and reliable tools.
- Do not drill holes in the equipment. Drilling can compromise the equipment's sealing, electromagnetic shielding, and internal components and cables. Metal chips generated during drilling can enter the equipment and cause a short circuit on the circuit board.

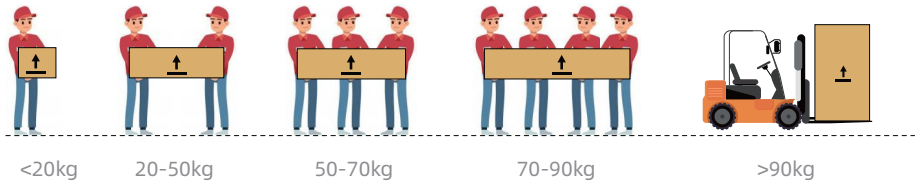
### Caution

- Any paint scratches that occur during transportation or installation must be promptly repaired.
- Do not leave scratched areas exposed for extended periods.
- Arc welding or cutting is strictly prohibited without written permission from the company.
- Do not install additional devices on top of the equipment without the company's written consent.
- When working in the area above the equipment, take precautions to protect the equipment from damage.
- Ensure that you have a complete set of tools and use them correctly.

#### ▪ Notice for Drilling

- Obtain consent from both the client and the contractor before drilling holes.
- Wear appropriate safety equipment, such as goggles and protective gloves.
- Avoid embedded pipes or lines to prevent short circuits or other hazards.
- Shield the equipment from any chippings generated during drilling.

- Instructions for Handling Heavy Objects



- Avoid manually carrying heavy objects, as this may result in serious injury, including sprains or being crushed.
- When manually co-carrying heavy objects, ensure that the carriers' heights and teamwork are considered to evenly distribute the weight.
- Lift heavy objects slowly, or place them on a waist-high workbench or other suitable surface.
- Adjust your grip before lifting to ensure a secure hold.
- Heavy objects should be carried with balanced and steady force. Move at a uniform, slow pace, and ensure the ground is flat and stable to prevent dropping or damaging the objects.
- When carrying heavy objects, be especially cautious around workbenches, slopes, stairs, and slippery areas. When passing through thresholds, ensure the door is wide enough for the objects to pass through, to avoid bruising or scratching your fingers.
- If using a forklift, position the fork centrally to prevent tipping. Secure the equipment to the forklift with ropes before moving, and assign dedicated personnel to oversee the process.
- During transportation, securely fasten the equipment to minimize bumps and inclines.

- Notice for Use of Ladder

- Use wooden or insulated ladders when performing live-line operations at heights.
- For necessary climbs, a platform ladder with a protective fence is preferred; straight ladders are not recommended.
- Before using a ladder, ensure it is in good condition and that its load-bearing capacity meets the required standards. Do not exceed the ladder's weight limit.
- Position the ladder on a stable surface and have it securely held during operation.
- When climbing the ladder, maintain a steady posture and keep your center of gravity within the ladder frame to ensure safety.
- When using a herringbone ladder, ensure the rope is securely fastened.
- If a straight ladder is used, set it at an incline angle of 75°, which can be measured with an angle square.

- When using a straight ladder, ensure the wider feet are placed firmly on the ground, or take measures to prevent the bottom from slipping.
- Do not climb higher than the fourth rung from the top when using a straight ladder.
- If a straight ladder is used to access a platform, the ladder should extend at least 1 meter above the platform's surface.
  
- **Notice for Aerial Operation**
- Any work conducted at heights over 2 meters from the ground is considered aerial work and requires the presence of a supervisor.
- Operators must be properly trained and certified before engaging in work at heights.
- Do not work at heights if the steel pipes are wet or if other hazardous conditions exist. Once these conditions have been resolved, safety personnel and relevant technical staff must inspect the equipment and confirm safety before resuming operations.
- Establish a restricted area with clear signage around the work zone to prevent unauthorized access.
- Install guardrails and signs at the edges and openings of the aerial work area to prevent falls.
- Do not pile scaffolding, springboards, or other materials underneath the aerial work area.
- Ground personnel must not stay or pass directly beneath the aerial operation area.
- Secure all tools and instruments to prevent them from falling, which could cause equipment damage or personal injury.
- Do not throw objects from heights or from the ground to an elevated position.
- Use slings, hanging baskets, aerial devices, or cranes for transportation.
- Avoid having two or more individuals working on the same scaffold simultaneously. If necessary, install a protective barrier or take other safety measures to separate them. Do not stack tools or materials on top of a scaffold.
- After completing the work, dismantle scaffolding from the top down. Do not remove upper and lower sections simultaneously. Ensure the stability of the remaining structure during dismantling.
- Do not engage in horseplay or eat while working at heights.
- Personnel must strictly adhere to safety regulations during aerial operations. The company is not responsible for any accidents resulting from violations of these guidelines.

# 2 Product

## 2.1 Product Commitment

PotisEdge guarantees that its products are free from defects resulting from improper materials.

## 2.2 Product Features

The Nora-C06-Bxx consists of the PDU Nora-C06 and stackable battery pack Nora-B06. A single PDU can be paired with 1 to 4 battery packs.



### Instruction

The system must be used with the specified inverter for optimal performance.

#### **Intelligent Interconnection:**

Through an integrated cloud platform, users can monitor product parameters and operating status in real-time via a mobile application.

#### **Human-Computer Interaction:**

A user-friendly display provides clear visualization of device metrics while allowing function adjustments through intuitive button controls.

#### **Wake-Up Function:**

When the device detects charging or discharging activity, Nora automatically restores full functionality from low power mode.

#### **Low power/Energy saving:**

When household loads are minimal, Nora enters a low-power mode to conserve energy.

#### **Stable Voltage and Frequency:**

Nora features an intelligent algorithm that ensures stable voltage and frequency, promoting safe and reliable operation of residential electrical equipment.

#### **Super Expansion:**

The modular "micro power station" design supports up to 2 DC parallel units and multiple AC parallel units, depending on the inverter specifications.

#### **Push-to- Start:**

After all air circuit breakers are closed, Nora can be activated by a single push of the power button.

#### **Module Stacking:**

A flexible cluster stacking design allows for energy capacity expansion from 6kWh to 18kWh by adding a 10kW inverter.

**Multiple Protection:**

Integrated circuit protection prevents equipment damage.

The inter-pack port maintains zero voltage during installation, operation, and maintenance, ensuring user safety.

**Battery Discharge:**

When PV generation is insufficient, the system discharges stored battery energy to support the load, maintaining reliable power supply through the inverter.

**Battery Charge:**

The battery module connects to the energy storage terminal of the inverter (BAT+ and BAT-). Controlled by the inverter, the battery is charged, and any excess photovoltaic energy is stored. When PV energy is insufficient, the inverter intelligently draws grid energy to prevent the battery from overdischarging.

**Quick-Connect Modules:**

The quick-connect design between modules (such as pack to pack, or pack to control box) allows immediate electrical connectivity upon stacking, eliminating the need for additional wiring.

**Heat Preservation Function:**

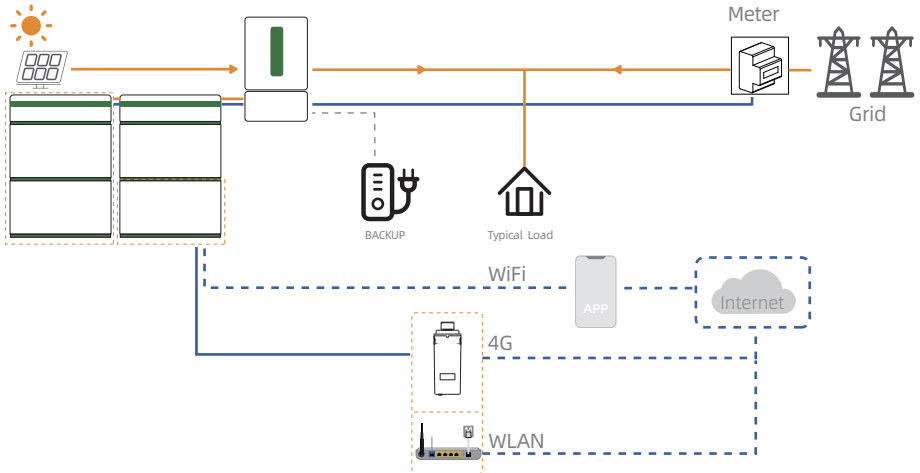
Equipped with a built-in battery heating and heat preservation module, ensuring reliable operation in severe cold conditions. (Optional module)

**Flexible Mounting:**

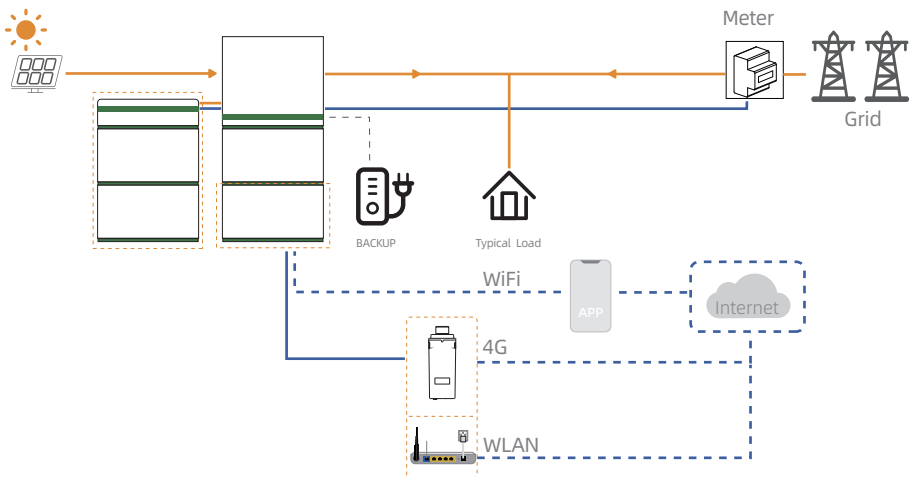
Nora supports multiple installation options, allowing for either floor or wall mounting as preferred. (Only floor-mounted accessories are provided; wall-mounted accessories must be purchased separately.)

## 2.3 Use Case Illustration

The Nora-C06-Bxx operates with a specified inverter, with the components in the virtual frame as an optional accessory.













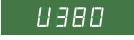














Nora-C06-B is used as a Nora-T10-Bxx-S DC parallel accessory mode (virtual frame is optional configuration).









## 2.4 System UI Logic Description

### 2.4.1 PCS UI Logic Description

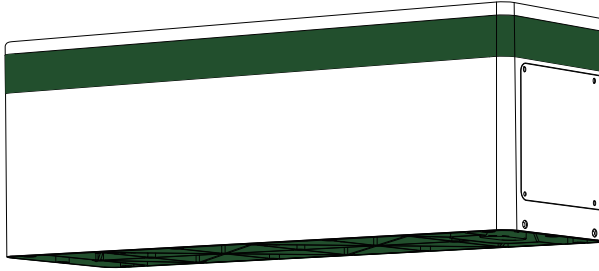
Icon	System Status	Icon Behavior	Remarks
	Shutdown/Standby/Error	Off 	
	Status Run/Alarm Status	Steady On 	
	Shutdown/Standby/Error Status	Off 	
	Operation/Alarm Status	Steady On	 Battery Level:81%-100%
		Steady On	 Battery Level:61%-80%
		Steady On	 Battery Level:41%-60%
		Steady On	 Battery Level:21%-40%
		Steady On	 Battery Level:0%-20%
	Shutdown/Standby Status	Off 	
	Running Status	Steady On	 U:output voltage } Scrolling display
		Steady On	 I :output current } Scrolling display
	Alarm Status	Steady On	 B:Battery alarm
	Error Status	Steady On	 B:Battery error } Scrolling display
Steady On		 P: PCS error } Scrolling display	
	Shutdown/Standby/Error Status	Off 	
	Run/Alarm Status	Flashing	 Not connected / Not Running
		Steady On	 Running Normally
	Shutdown/Error Status	Off 	Long press the system for 3 seconds to start, Hold for 5 seconds to enter standby mode.
	Standby Status	Flashing 	
	Running/Alarm Status	Steady On 	

## 2.4.2 Battery UI Logic Description

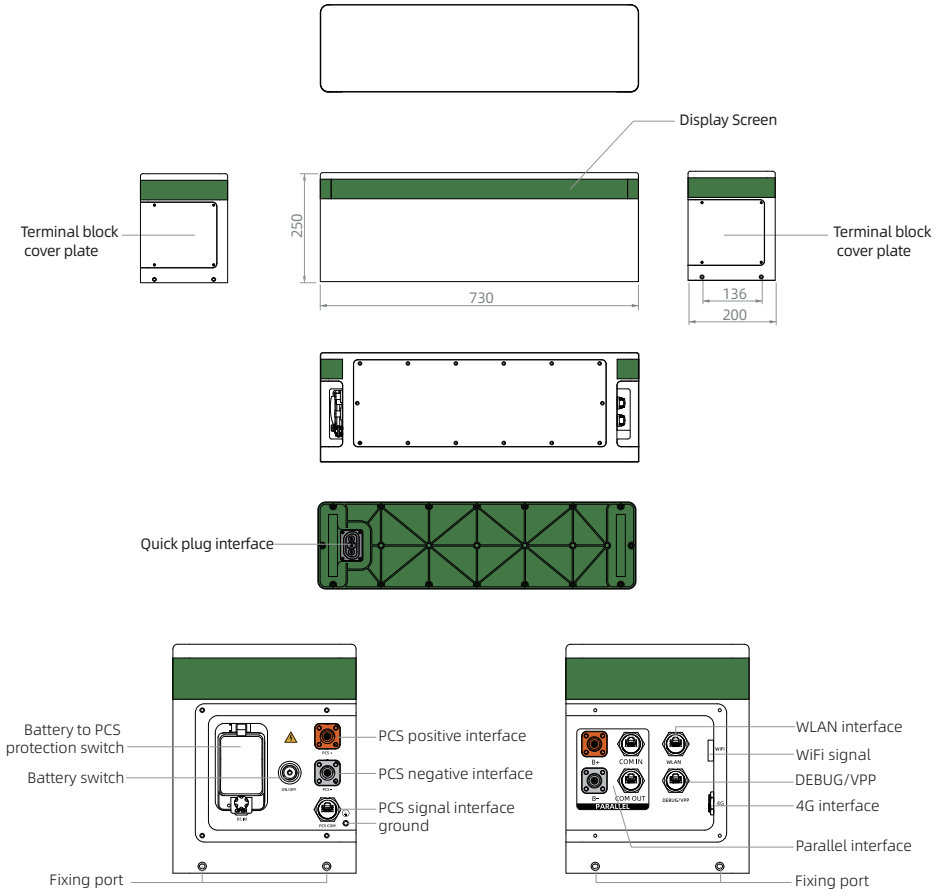


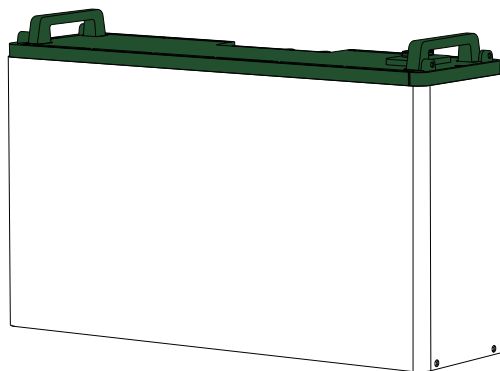
System Status	Icon Status	Remarks
Powered Off	Off 	
Parallel operation Battery startup in progress	Flashing 	
Running Status	Steady On  Steady On 	Battery level: 21%-100% Battery level 0-20%
Alarm Status	Steady On 	
Error Status	Steady On 	

## 2.5 Product Introduce

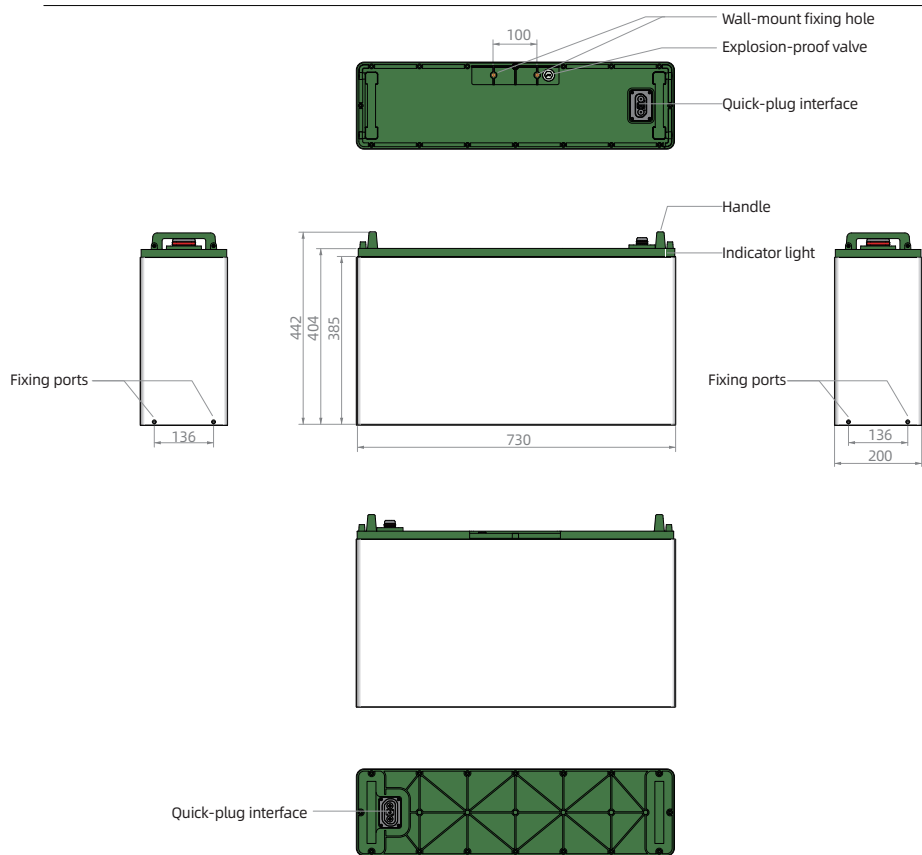


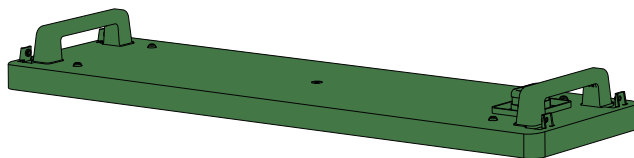
Nora-C06





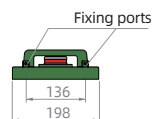
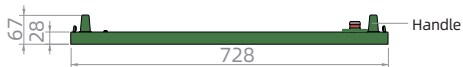
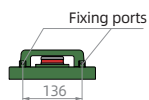
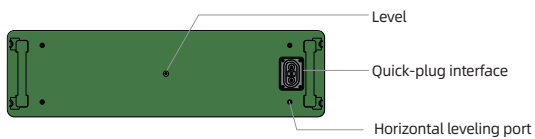
## Nora-B06





## Base

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## 2.6 Product Specifications

### Instruction

- At 100% depth of discharge for a new battery, all data were measured within a temperature range of  $25 \pm 2^{\circ}\text{C}$  under 0.5C charge and discharge conditions. The rated charge and discharge current, as well as power, are affected by both temperature and SOC.



Nora-C06-B06



Nora-C06-B12



Nora-C06-B18



Nora-C06-B24

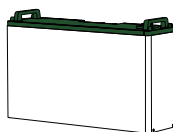
BATTERY DATA				
Cell Chemistry	LFP			
Rated Energy	6.144kWh	12.288kWh	18.432kWh	24.576kWh
Rated Capacity	20Ah	40Ah	60Ah	80Ah
Standard Charge/Discharge Current	10A	20A	20A	20A
Max. Charge/Discharge Current	17.5A	35A	35A	35A
Rated Voltage	307.2VDC			
Voltage Range	240~345.6VDC			
SOC at Shipment	40%			
Insulation Resistance	$\geq 100\text{M}\Omega/500\text{V}$			
General				
Dimensions (WxDxH)	730*200*682mm	730*200*1086mm	730*200*1490mm	730*200*1894mm
Weight	76kg	138kg	200kg	262kg
Cooling Method	Natural Convection			
Altitude	< 2000m			
IP Rating	IP65			
Protection Class	Class I			
Operation Temperature Range	Charging: 0~50°C ; Discharging: -20~55°C			
Storage Temperature	-20°C~50°C			
Relative Humidity	5~95%, RH			
Display	APP+LCD, WiFi			
Communication	CAN2.0B, RS485, WiFi			
Installation	Floor Mount			
Working Environment	Indoors, Outdoors			
Parallel Operation Mode	DC parallel: 2 PCS AC parallel: PCS decision			
Certifications				
Safety	IEC62619, IEC62040, IEC62477, UN38.3, UN3480			
EMC	IEC61000			



BATTERY DATA				
Cell Chemistry	LFP			
Rated Energy	30.72kWh	36.864kWh	43.008kWh	49.152kWh
Rated Capacity	100Ah	120Ah	140Ah	160Ah
Standard Charge/Discharge Current	20A	20A	20A	20A
Max. Charge/Discharge Current	35A	35A	35A	35A
Rated Voltage	307.2VDC			
Voltage Range	240~345.6VDC			
SOC at Shipment	40%			
Insulation Resistance	≥100MΩ/500V			
General				
Dimensions (WxDxH)	730*200*1086mm	730*200*1490mm	730*200*1490mm	730*200*1894mm
	730*200*1490mm	730*200*1490mm	730*200*1894mm	730*200*1894mm
Weight	338±2kg	400±2kg	462±2kg	524±2kg
Cooling Method	Natural Convection			
Altitude	< 2000m			
IP Rating	IP65			
Protection Class	Class I			
Operation Temperature Range	Charging: 0~50°C ; Discharging: -20~55°C			
Storage Temperature	-20°C~50°C			
Relative Humidity	5~95%, RH			
Display	APP+LCD, WiFi			
Communication	CAN2.0B, RS485, WiFi			
Installation	Floor Mount			
Working Environment	Indoors, Outdoors			
Parallel Operation Mode	DC parallel: 2 PCS AC parallel: PCS decision			
Certifications				
Safety	IEC62619, IEC62040, IEC62477, UN38.3, UN3480			
EMC	IEC61000			

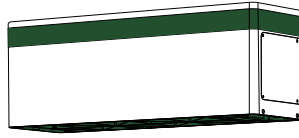
### ⚠ Instruction

- At 100% depth of discharge for a new battery, all data were measured within a temperature range of  $25 \pm 2^\circ\text{C}$  under 0.5C charge and discharge conditions. The rated charge and discharge current, as well as power, are affected by both temperature and SOC.



Nora-B06

BATTERY DATA	
Cell Chemistry	LFP
Rated Energy	6.144kWh
Rated Capacity	20Ah
Standard Charge/Discharge Current	10A
Max. Charge/Discharge Current	17.5A
Rated Voltage	307.2VDC
Voltage Range	240~345.6VDC
SOC at Shipment	40%
Insulation Resistance	$\geq 100\text{M}\Omega/500\text{V}$
General	
Dimensions (WxDxH)	730*200*442mm
Weight	62kg
Cooling Method	Natural Convection
Altitude	< 2000m
IP Rating	IP65
Protection Class	Class I
Operation Temperature Range	Charging: 0~50°C ; Discharging: -20~55°C
Storage Temperature	-20°C~50°C
Relative Humidity	5~95%, RH
Display	APP+LCD, WiFi
Communication	CAN2.0B, RS485, WiFi
Installation	Floor Mount
Working Environment	Indoors, Outdoors
Parallel Operation Mode	
Certifications	
Safety	IEC62619, IEC62040, IEC62477, UN38.3, UN3480
EMC	IEC61000



Nora-C06

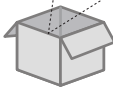
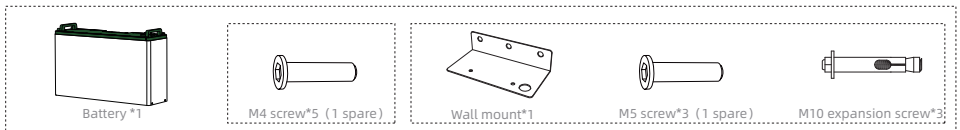
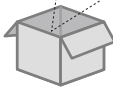
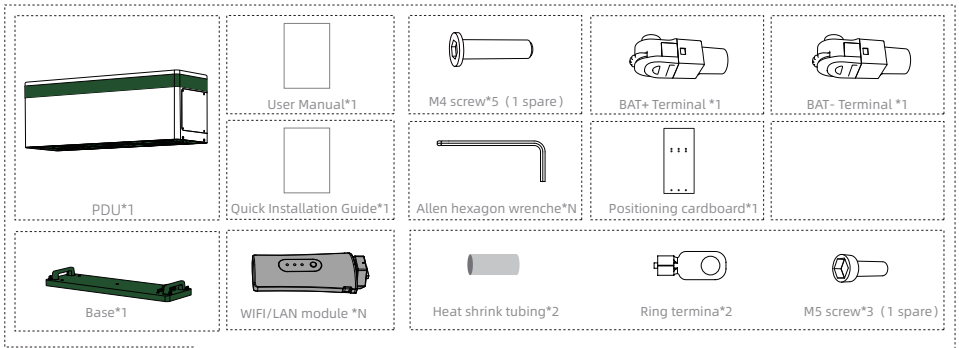
General	
Dimensions (WxDxH)	730*200*250mm
Cooling Method	Natural Convection
Altitude	< 2000m
IP Rating	IP65
Protection Class	Class I
Operation Temperature Range	Charging: 0~50°C ; Discharging:-20~55°C
Storage Temperature	-20°C~50°C
Relative Humidity	5~95%, RH
Display	APP+LCD, WiFi
Communication	CAN2.0B, RS485, WiFi
Installation	Floor Mount
Working Environment	Indoors, Outdoors

## 3 Packaging, Transportation & Storage

Before accepting the product, please conduct a detailed inspection as follows:

- Examine the outer packaging for any visible signs of damage, such as deformation, holes, cracks, or other indicators of potential internal damage. If any damage is found, do not open the package and contact the distributor immediately.
- Verify that the inverter model is correct. If there is any discrepancy, do not open the package and contact the distributor.
- Confirm that the type and quantity of delivered parts are accurate, and inspect the appearance of each part for any damage. If any damage is identified, contact the distributor.

### 3.1 Items Contained in the Box



Instruction: N means the tool is not necessarily provided.  
N can be 0.  
It is only distributed in specific models.

## 3.2 Transportation Requirements

- Avoid violent handling during loading and unloading of the product, as this can cause short circuits, damage (such as leakage or rupture), fire, or explosion.
- Do not handle the battery by its terminals, bolts, or cables to prevent damage. The battery must be handled in the specified orientation. Do not invert, tilt, drop, or subject it to mechanical impact.
- Ensure it is protected from exposure to rain, snow, and water immersion.
- Before unpacking, storage, and transportation, verify that the outer packaging is intact and that the battery is correctly oriented according to the labels on the packaging box. Do not place the battery upside down, sideways, vertically, or at an angle. Adhere to the stacking requirements indicated on the packaging to avoid damage or scratches. The batteries comply with UN 38.3 (UNK4UN 38.3: Section 38.3 of the sixth Revised Edition of the Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria UNK2) and SN/T 0370.2-2009 standards.
- This product is classified as Class 9 dangerous goods according to the "Rules for Inspection on Packaging of Dangerous Goods for Export, Part 2: Performance Inspection."
- Transportation must be conducted by a supplier qualified to handle dangerous goods. Open vehicles are not permitted for transportation.
- Batteries can be transported to the site via road or sea routes.
- Comply with international regulations for the transport of dangerous goods and adhere to the requirements of the transport authorities in the country of origin, transit, and destination.
- Sea transportation or well-maintained roads are the preferred methods for shipping. Avoid transportation by rail or air. Minimize potential impacts or tilting during transit.
- Shipping must comply with the requirements of the International Maritime Dangerous Goods Code (IMDG Code). For land transport, adhere to the ADR or JT/T 617 standards.
- Before transportation, confirm that the battery packaging is intact and that there are no signs of odor, leakage, smoke, or flame. If any issues are detected, cancel the transport.
- The transportation packaging must be sturdy, and care should be taken during loading, unloading, and transit. Ensure moisture-proof measures are in place.
- Handle the battery with care and avoid direct contact with it to ensure personal safety
- Unless otherwise specified, dangerous goods must not be transported in the same vehicle or container as goods containing food, medicine, animal feed, or their additives.
- Unless otherwise specified, when dangerous goods are loaded alongside ordinary goods in the same vehicle or container, they must be segregated using one of the following methods:
  - a. Use spacers of the same height as the packages.
  - b. Maintain a minimum spacing of 0.8 meters in all directions.
- Before handling a faulty battery (e.g., carbonized, leaking, swollen, water-damaged), the positive and negative terminals must be insulated. The battery should be packed in an insulated explosion proof box as soon as possible, with a record attached to the outer box, including the transport station name, address, time, and the condition of the battery.

- When transporting faulty batteries from the station, avoid proximity to combustible storage areas, residential areas, or other crowded locations, such as public transport facilities or elevators.
- The product name, specifications, production date, quantity, and batch number are marked on the packaging box. Care should be taken to preserve these markings. If the markings become damaged, please replace them promptly

### 3.3 Storage Requirements

- The storage environment must comply with local regulations and standards.
- In the event of battery failure (e.g., carbonization, leakage, swelling, water ingress), immediately relocate the battery to a designated hazardous goods warehouse for isolated storage, maintaining a minimum distance of 3 meters from surrounding combustibles. Faulty batteries must be disposed of as soon as possible.
- When storing the battery, ensure it is positioned correctly according to the labels on the packaging. Do not place the battery upside down, sideways, or at an angle. Follow the stacking guidelines indicated on the packaging to avoid damage
- Store batteries separately from other devices, and avoid stacking them too high. If storing a large number of batteries, it is recommended to have fire-fighting equipment, such as sand and fire extinguishers, readily available. The storage environment should be free from corrosive or flammable gases.
- Storage environment requirements:
  - a. Ambient Temperature: -10°C to 55°C; recommended storage temperature: 0°C to 30°C (for up to 6 months).
  - b. Relative Humidity: 5% RH to 95% RH.
  - c. Storage Conditions: Store in a dry, ventilated, and clean room.
  - d. Chemical Exposure: Avoid contact with corrosive organic solvents, gases, and other substances.
  - e. Sunlight: Avoid direct sunlight exposure.
  - f. Proximity to Heat Sources: Maintain a distance of at least two meters from heat sources, with no significant infrared radiation.
  - g. Contaminants: Ensure the environment is free from metal conductive dust and other contaminants.
- During storage, documentation proving adherence to the storage requirements, such as temperature and humidity logs, storage environment photos, and inspection reports, must be maintained.
- The battery must be disconnected from external connections, and the circuit breaker must be switched off during storage.

- The warehouse manager should collect and report battery storage information monthly, regularly update the planning department on inventory, and recharge batteries stored for nearly 15 months (-10°C to 25°C), 9 months (25°C to 35°C), or 6 months (35°C to 55°C) as needed.
- The warehouse manager should collect and report battery storage information monthly, regularly update the planning department on inventory, and recharge batteries stored for nearly 15 months (-10°C to 25°C), 9 months (25°C to 35°C), or 6 months (35°C to 55°C) as needed.
- Batteries should be shipped on a first-in, first-out basis.
- After production testing, the battery should be charged to at least 50% SOC before storage.

### Warning

- Inspect the battery's appearance before recharging. Only batteries that pass the inspection should be recharged; those that do not pass should be treated as scrap.
- A battery passes the appearance inspection if it shows no signs of deformation, casing damage, or leakage.

## Conditions Defining Extended Storage

- If the battery shows signs of deformation, damage, or leakage, it must be disposed of immediately, regardless of the storage duration.
- The storage time is calculated from the latest charge date marked on the battery's outer packaging. After recharging the battery, update the label with the latest charge date and the next charge date (next charge date = latest charge date + recharge interval).
- The maximum allowable storage period and recharges are either 3 years or 3 recharge cycles, whichever comes first. For example, if the battery is recharged once every 8 months, a maximum of 3 recharges is allowed (it is recommended to recharge within 6 months). If the battery exceeds the maximum allowable storage period or recharge cycles, it is recommended to dispose of it.
- Long-term storage of Li-ion batteries may result in capacity loss. After 12 months of storage at the recommended temperature, Li-ion batteries may experience an irreversible capacity loss of 3% to 10%. Customers may find that the battery fails to pass a discharge test if the storage capacity is not at 100% of the rated capacity.

### Warning

When the battery's SOC drops to 0% or the system shuts down for protection, the battery must be recharged within 7 days. The company will not provide warranty service for any permanent battery failure resulting from the customer's failure to recharge the battery within this allowable period.

# 4 Installation Preparation

## 4.1 Installation Tools



Level



Art knife



Anti-static bracelet



Marker

Disassembly and  
assembly wrench

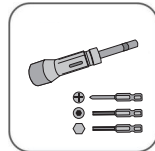
Open-end wrench



Hammer drill



Rubber mallet



Torque wrench



Heat gun



Wire stripper



Socket wrench kit



Wire cutters



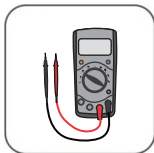
Diagonal pliers



Crimping pliers



Disassembly wrench



Multimeter



Vacuum cleaner



Tape measure



Phone &amp; WiFi

## 4.2 Installation Protection



Goggles



Noise-canceling earbuds



Dust mask



Insulated gloves



Insulated shoes

## 4.3 Safe Installation and Operation

### Danger

- Please take note of the positive and negative terminals during equipment installation. Avoid short-circuiting the positive and negative terminals of a battery pack or battery string, as this can lead to a short circuit in the battery.
- Before beginning installation or maintenance, ensure that all air switches on the product are set to OFF.
- During installation and maintenance, the related residential circuit should remain disconnected.

### Warning

- Tighten the fastening screws of the copper bar or cable according to the torque specifications in the manual. Regularly inspect the screws to ensure they are secure and check for any signs of rust, corrosion, or foreign matter. Remove any contaminants promptly. Loose screw connections can lead to excessive voltage drops and, in high-current situations, may even cause the battery to overheat or burn.
- During installation, do not place tools, metal parts, or other materials on the equipment. Once installation is complete, thoroughly clean the equipment and its surrounding area.
- After unpacking, position the product according to the specified orientation. Do not place it upside down, sideways, vertically, or at an angle, and avoid stacking it, to prevent collisions or drops.

### Caution

- Push and move the device slowly during installation to prevent collision and scratch.
- The equipment shall be tightened firmly before starting the forklift to prevent the equipment from falling.
- Do not remove protective components on the equipment terminals, such as protective covers or waterproof caps.
- Handle the device with care, avoiding any impacts, and prioritize personal safety.
- Install and secure the equipment horizontally, working from bottom to top and left to right, to lower the center of gravity and prevent tilting.
- After connecting and fastening the equipment, verify that the screw spring washer is fully compressed, the cable terminals are properly oriented outward, and the cable remains undamaged.

**Check the Outer Packing**

Before unpacking the product, inspect the outer packaging for any visible damage, such as punctures, cracks, or other signs of potential internal damage. If any damage is detected, or if the product does not match the purchased model, do not unpack the product and contact the distributor immediately.

**Check Delivery**

After unpacking the product, verify that all delivered items are complete and undamaged. If any items are missing or damaged, contact the distributor immediately.

Please refer to the Packing List included in the packaging box to verify the quantity of delivered parts. Before installing the battery pack, inspect it for any abnormalities. A battery pack is considered abnormal if any of the following conditions are present:

- The battery pack casing is visibly deformed or damaged.
- The voltage between the positive and negative terminals is significantly below the specified range.

## 4.4 Installation Location

The product can be installed either on the floor or mounted on the wall (optional).

**Installation angle requirements:**

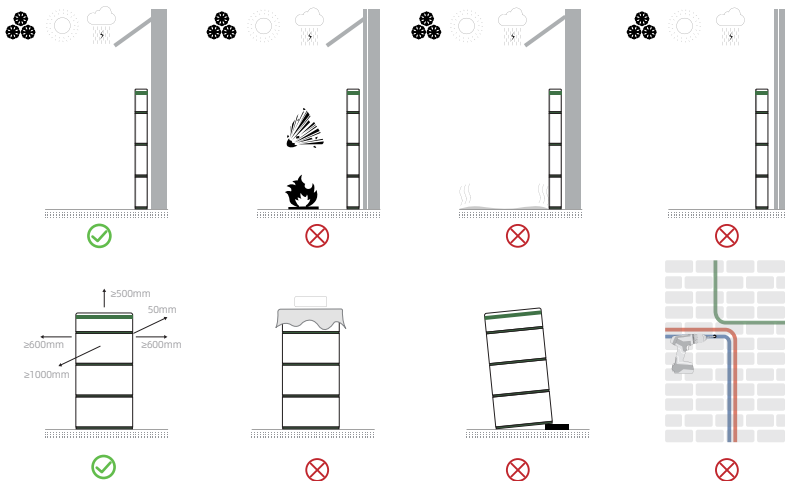
Do not install the equipment in a forward-leaning, horizontal, upside-down, backward, or sideways position.

**Installation location requirements**

- Install the device on a solid brick-concrete structure, concrete wall, or ground. If other types of walls or flooring are used, ensure they are made of flame-retardant materials and are sufficiently strong to support the product's weight.
- When drilling, be careful to avoid embedded pipes or electrical lines to prevent short circuits or other hazards.
- Do not place anything on top of the equipment or cover it.
- Avoid installing the equipment in environments containing corrosive gases or liquids.
- Do not install in areas accessible to children.
- Keep flammable, explosive, and corrosive materials away from the equipment.
- Avoid installation in areas prone to water accumulation, snow accumulation, etc.
- Avoid environments with strong electromagnetic interference(EMI)( $>1\text{m}$ ).
- Keep the equipment away from extreme heat or cold sources.
- Avoid placing the equipment in areas exposed to direct sunlight, rain, or damp conditions.

**Installation space requirements**

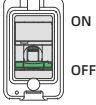
- When installing the equipment, ensure that no other equipment (except related devices and sunshades) or flammable and explosive materials are nearby. Reserve adequate space for heat dissipation, safety isolation, and safe operation.
- For wall-mounting, do not place anything above or below the equipment.



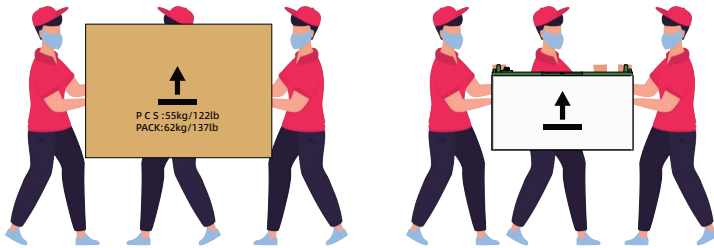
# 5 System Installation

## 5.1 Carrying and Unpacking the Product

### Danger

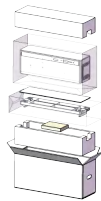
- Before operation, follow the procedures outlined in this manual, as well as relevant international, national, or regional standards, and adhere to industry-specific safety rules and practices.
  - Ensure that all protective switches for residential circuits and equipment are
  - Inspect the outer packaging. If it is intact, open the box and verify that all products and accessories are complete.
  - After disconnecting all batteries and the AC power supply, wait at least **10 minutes** before performing any operations.
- 
- a)- the stackable connectors are at least IP2X (live parts can't be touched by fingers)
  - b)-Cells are connected in series to form a battery module, and each battery module is then connected in parallel.
  - c)-the modules are de-energised during stacking/unstacking

01



A single package weighs approximately 65 kg and is recommended to be moved by 3 people. Keep the product level and upright during transport.

02



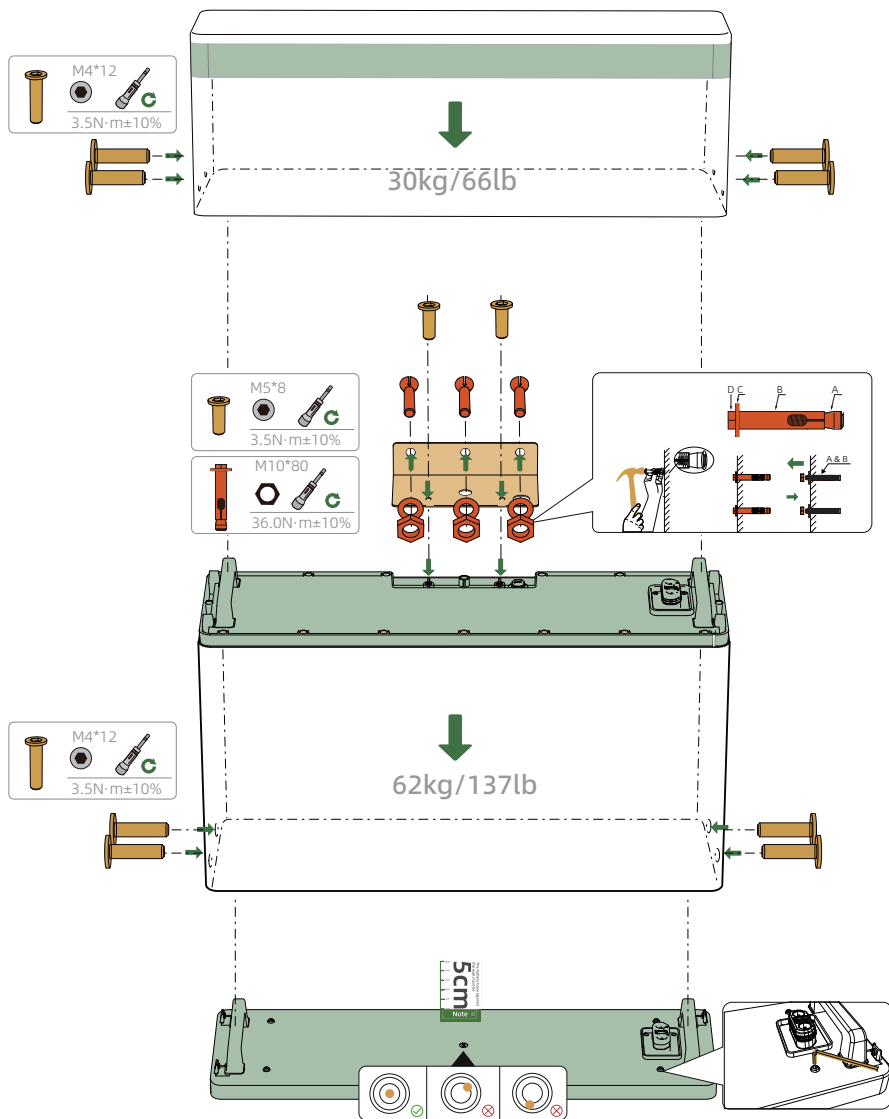
PDU Packaging



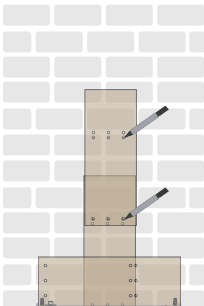

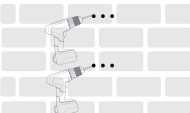
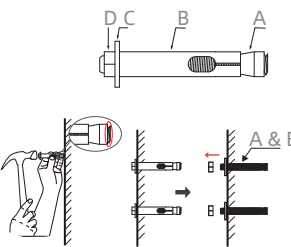
PACK Packaging

Inspect the outer packaging. If it is intact, open the box and verify that all products and accessories are complete.

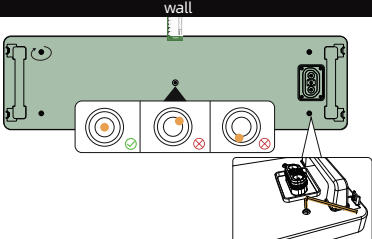
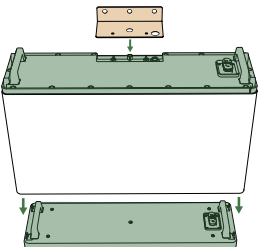
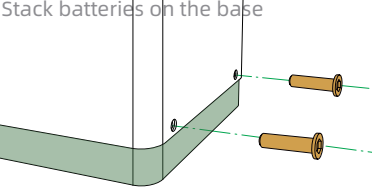
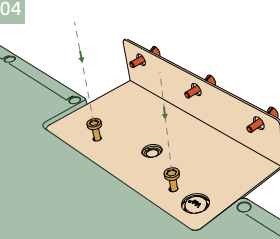
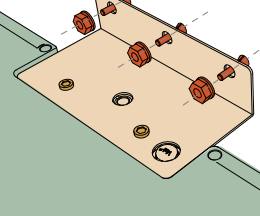
## 5.2 General Installation Drawing of the Product



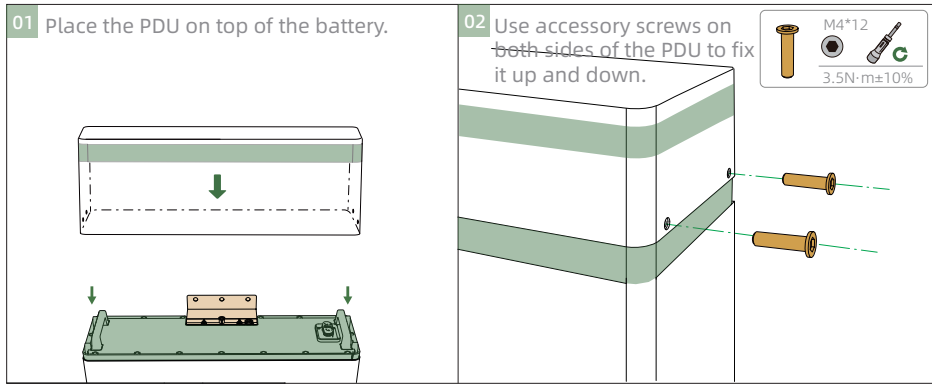
## 5.3 Positioning Hole Marking and Drilling

<p><b>01</b> Mark the positioning holes with the mounting bracket.</p> 	<p><b>02</b> Drill holes at the marked points. Drill bit diameter: 12mm Hole depth : 100mm</p> <p> Caution: Avoid drilling into embedded pipes or electrical lines to prevent short circuits or other hazards.</p> 	<p><b>03</b> Insert the expansion screw into the wall.</p>  <p>Expansion screw group (M10; 4 suites)</p>
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## 5.4 Base and Battery Mounting and Fixing

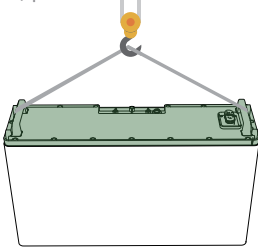
<p><b>01</b> Place the base 5 cm away from the wall and ensure the ground is level.</p> 	<p><b>02</b> Stack batteries on the base</p> 
<p><b>03</b> Stack batteries on the base</p>  <p><b>M4*12</b> 3.5N·m±10%</p>	<p><b>04</b></p>  <p><b>M5*8</b> 3.5N·m±10%</p>
 <p><b>M10*80</b> 36.0N·m±10%</p>	<p><b>05</b></p>

## 5.5 Battery and PDU Mounting and Fixing



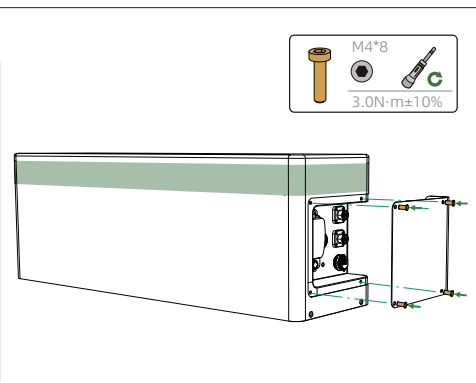
## 5.6 Product lifting

If installing 3 or more energy storage batteries, please use crane tools.



When lifting, please wrap the protective layer around the area where the lifting rope comes into contact with the equipment to avoid damaging it.

## 5.7 Installation and Removal of Side Cover



System installation is completed.

# 6 Wiring Harness Installation

## Danger

- This operation must be performed by a locally certified electrician.
- Before operation, please strictly abide by the "User manual", relevant international, national or regional standards, as well as industry-specific safety rules and practices.
- Do not perform any operation until the system is completely powered off.
- The total power of the load must be less than the total power of ALOE PRO-M. Overload will cause alarm or even automatic shutdown.

High power home appliances (only for reference)

Kettle	2kW	Microwave	1.5kW	Bath Heater	3kW	TV	0.3kW
Induction Cooker	3kW	Oven	2kW	Hairdryer	1.6kW	Air Conditioner	2kW
Refrigerator	2kW	Toaster	2kW	Electrical Water Heater	2kW	High-power Audio	1kW
EV Charging Pile	7kW						

## Instruction

The materials needed for home circuit rewiring should be purchased by the user.  
If home circuit redesign is not required, skip this procedure.

### 6.1 Grounding

A protective earth (PE) terminal is equipped at the side of the inverter. Please be sure to connect this PE terminal to the PE bar for reliable grounding. AWG 10 yellow green lines are recommended.

**01**

$L=L1+(1\sim 2)mm$

Heat shrink tubing

4mm<sup>2</sup> single-core solid copper cable

Ring

**02**

Crimping pliers

**03**

Heat gun

**04**

**⚠ Danger**

01. Confirm that the protective ground wire is securely connected. An insecure or loose connection may lead to the risk of electric shock.  
02. It is recommended to apply silicone or paint on the outside of the grounding terminal for protection after the installation of the grounding wire is completed

### 6.2 Signal Cable Installation

**01** Ensure that the home network connection is functioning properly. Connect both ends of the signal cable Nora and router respectively. If the home WiFi signal is strong, the signal cable may not be necessary.

01. If using a signal cable, install it appropriately to fit the specific setup, with a recommended length of less than 3 meters.

02. Ensure that the network connection is functioning properly.

03. Communication should support RJ45 (T568B) standard, connecting to the LAN port (service port).

Customer provided  
(regular network cable)

### 6.3 Battery to PCS Signal

**01** ⚠ **Note:**  
Refer to the PCS instructions for the PCS side.

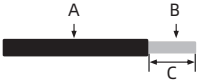
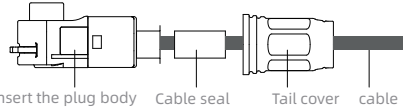
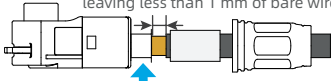

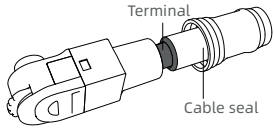
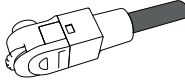
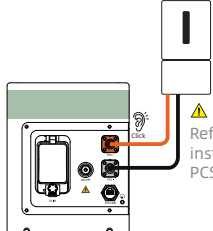
**RJ45 Connector Interface Description (T568B)**

	NO.	Color	PCS COM
1	01	Orange-White	485B-2(PCS)
2	02	Orange	485A-2(PCS)
3	03	Green-White	485B-1(VPP)
4	04	Blue	CAN1H
5	05	Blue-White	CAN1L
6	06	Green	485A-1(VPP)
7	07	Brown-White	CAN2L(PCS)
8	08	Brown	CAN2H(PCS)

## 6.4 Battery to PCS Power Cable Connection

### ⚠ Instruction

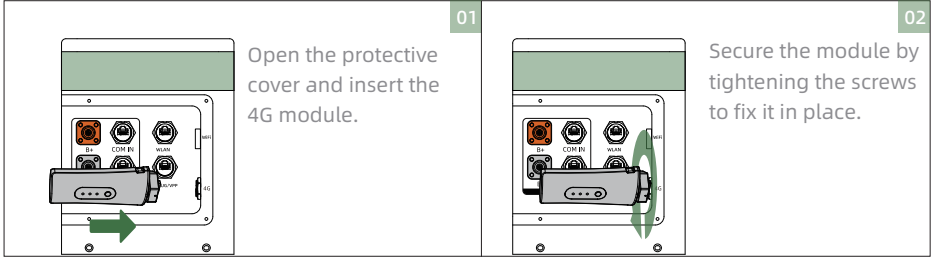
This manual covers only the terminal fabrication and connection methods on the battery side. For instructions related to the PCS side, please refer to the inverter manual.

<p>01</p>  <table border="1" data-bbox="196 518 448 598"> <tbody> <tr> <td>A. Diameter</td> <td>10 ~ 12mm</td> </tr> <tr> <td>B. Cross section</td> <td>25mm<sup>2</sup></td> </tr> <tr> <td>C. Strip length</td> <td>~10mm</td> </tr> </tbody> </table> <p><b>⚠ Caution</b> Ensure the core wire is not stripped when handling the cable</p>	A. Diameter	10 ~ 12mm	B. Cross section	25mm <sup>2</sup>	C. Strip length	~10mm	<p>02</p> <p>Select the appropriate cable based on the connector specifications. Thread the tail cap and seal onto the cable in the correct sequence, ensuring proper orientation of the seal.</p>  <p>Insert the plug body    Cable seal    Tail cover    cable</p>
A. Diameter	10 ~ 12mm						
B. Cross section	25mm <sup>2</sup>						
C. Strip length	~10mm						
<p>03</p> <p>Insert the prepared core wire into the crimp terminal and secure it using a rivet.</p>  <p>Ensure the core wire is stripped, leaving less than 1 mm of bare wire exposed.</p>  <p><b>⚠</b> Hydraulic crimping pliers Use a cable with a 25 mm<sup>2</sup> cross-sectional area.</p>	<p>04</p> <p>Push the seal firmly into the terminal position to ensure a proper fit.</p>  <p>Terminal Cable seal</p>						
<p>05</p> <p>Position the cable seal correctly onto the cable. Push the tail cap to drive the seal into the thread. Secure the tail cap to the plug body using a wrench with a torque of 1.0-1.5 N·m.</p> 	<p>06</p> <p>Insert the terminal into the battery until you hear a click, ensuring it is properly seated.</p>  <p><b>⚠ Note:</b> Refer to the PCS instructions for the PCS side.</p>						

Wiring harness installation is complete.

## 6.5 4G Module Installation (Optional)

The 4G module only supports this model: RSG-1-03001. If you intend to use a different model or brand, please report this to the manufacturer. Usage of unsupported modules is permitted only after obtaining communication support approval.



### USB Pin Description

The supported input voltage range is DC 5-24V, and the power supply must ensure stability by maintaining a ripple voltage of less than 300mV, an instantaneous voltage that does not exceed 48V, and a power output greater than 8W.

USB interface diagram	USB Pin Remarks
<p>Standard A - D+ D- + 4 3 2 1</p>	<p>Pin 1: Marked as VCC, Power +, DC 5-24V</p> <p>Pin 2: Marked as D-, RS485-B</p> <p>Pin 3: Marked as D+, RS485-A</p> <p>Pin 4: Marked as GND, Power-</p>

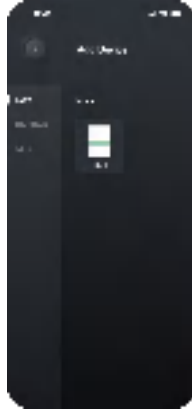
### 4G Indicator Light Definitions

Name	Color	Function	Description
PWR	Red	Power indicator	<ul style="list-style-type: none"> <li><b>Power Indicator:</b> Remains on under normal power supply conditions. However, it turns off if the power supply is abnormally interrupted.</li> </ul>
LINK	Green	Network connection status indicator	<ul style="list-style-type: none"> <li><b>Always On:</b> Remains on once the WiFi network is successfully connected. After entering restart mode, flashes every 3 seconds to indicate reconnection with the server.</li> <li><b>Flashing (1 second interval):</b> Flashes once per second when there is data communication with the network.</li> <li><b>Flashing (500ms interval):</b> Continuously flashes every 500ms during Simplelink configuration.</li> <li><b>Off:</b> WiFi network is disconnected, unable to connect, or has entered factory reset settings.</li> </ul>
COM	Red	Inverter communication indicator	<ul style="list-style-type: none"> <li><b>Always On:</b> Enters restart mode and remains on.</li> <li><b>Flashing (1 second interval):</b> Flashes once per second during data communication.</li> <li><b>Flashing (500ms interval):</b> Flashes every 500ms during Simplelink configuration.</li> <li><b>Off:</b> Indicates recovery mode or factory reset state.</li> </ul>
RESET		Function button	<ul style="list-style-type: none"> <li><b>Press for 2-5 seconds:</b> Initiates Simplelink network configuration. In this mode, LINK and COM indicators flash every 500ms.</li> <li><b>Press for 6-9 seconds:</b> Performs a reset, turning LINK and COM indicators solid.</li> <li><b>Press for 10-15 seconds:</b> Restores factory settings, turning off both LINK and COM indicators.</li> </ul>

## 4G Module APP Connection



Open the app homepage



add device



Select 4G module connection



add device



Scan the MAC address of the product



### Instruction

For other detailed steps, please refer to the app settings

# 7 Commissioning and Operation

## Danger

- Always use appropriate protective equipment and insulated tools to avoid electric shock or short circuits.
- Carefully observe the system when powering it on. If any abnormalities are detected, immediately power off the battery, identify and resolve the issue, and only then power it back on.
- After the battery is disconnected for installation, commissioning, or has completed discharging, recharge it promptly. Failure to do so could result in damage from over-discharge.
- Storing batteries with a low state of charge (SOC) may lead to battery failure due to over-discharge.
- Ensure the battery is recharged in a timely manner.

## Warning

- Before powering on the equipment for the first time, ensure that the parameters are correctly set by qualified professionals.
- Incorrect settings can result in non-compliance with the power grid requirements of the country or region, which may affect the normal operation of the equipment.

## 7.1 Inspection Before Power-on

**Switches:** Ensure that all switches in the household circuit and all switches connected to the energy storage system are in the "OFF" position.

**Grounding:** Verify that the ground wire is connected correctly and securely.

**Cable Connection:** Confirm that the AC output line, DC input line, power line, and signal line are connected correctly and firmly.

**Cable Layout:** Ensure the cable layout is organized and tidy, meeting user requirements.

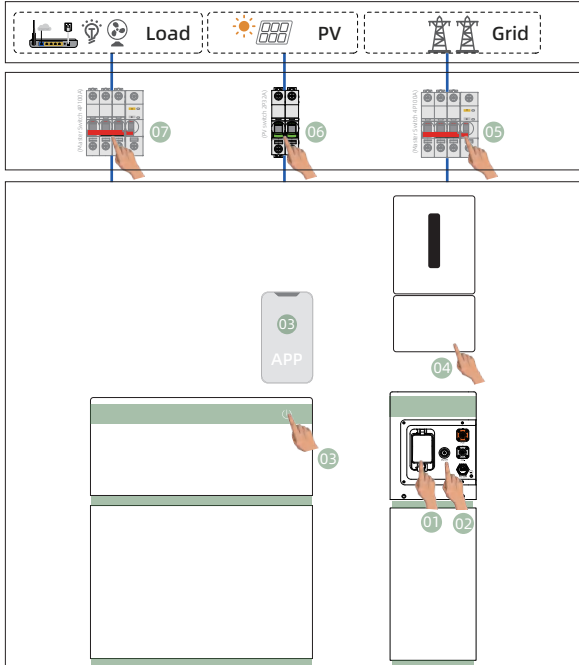
**Binding of Cable Ties:** Distribute cable ties evenly, making sure there are no sharp edges at the cuts.



**Installation of Energy Storage System:** Check that the energy storage system is installed correctly, securely, and reliably.

**Installation Environment:** Ensure the installation space is adequate, the environment is clean and tidy, and no construction debris remains.

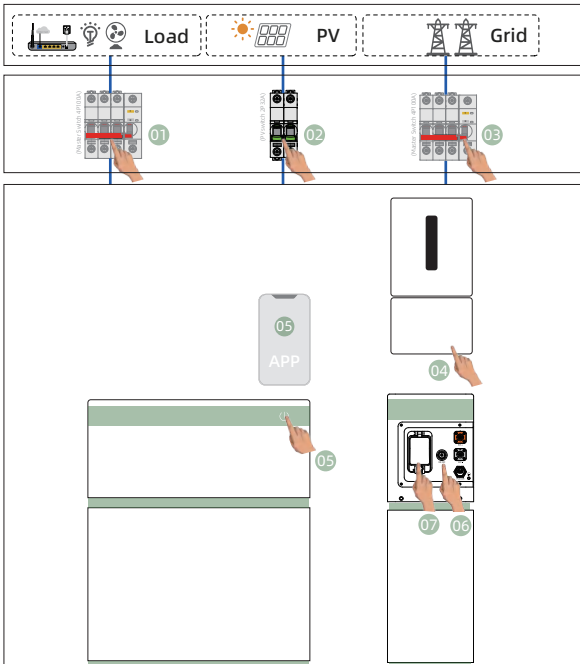
**Unused Terminals and Connectors:** Place waterproof covers on all unused terminals and connectors.


## 7.2 System Power-up



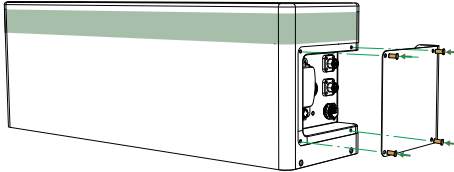
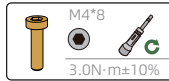
- 01 Turn on the DC IN switch.
- 02 Press and Hold the  for 3 seconds to power on Nora.
- 03 Long Press the **ON/OFF** Switch for 3 Seconds The indicator  will start flashing to show the system is on standby.or connect to the App for remote control.
- 04 Turn on the **PV** protection switch of the inverter.
- 05 Turn on the **Grid** protection switch.
- 06 Turn on the **PV** protection switch.
- 07 Turn on the **Load** protection switch and the boot is completed.

## 7.3 System Power-off



- 01 Turn off the Load switch.
- 02 Turn off the PV switch.
- 03 Turn off the Grid switch.
- 04 Turn off the PCS-PV isolation switch.
- 05 Press and hold  for 5 seconds. The system is in standby mode. or connect to the App for remote control.
- 06 Turn on the **ON/OFF** switch of the battery for 5 seconds. The system is shut down.
- 07 Turn off the battery DC IN switch.

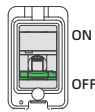
**⚠ Instruction**



System installation is completed.  
Please open the side cover before turning on the light machine,  
Please install the upper cover plate promptly after operation.

**⚠ Instruction**

- 01.The PV and circuit breaker in the distribution box must be provided by the customer. If this equipment is not available, please skip the related operation steps.
- 02.The status of the battery switch is as shown in the figure:

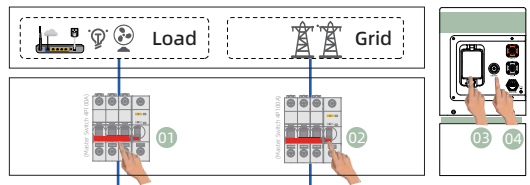


**⚠ Danger**

In case of an emergency, immediately turn off all air circuit breakers protections.

**⚠ Danger**

In case of emergency danger  
Please disconnect the power grid and load main switch in a timely manner,  
Then turn off the power of the product.



**⚠ Instruction**

After completing the debugging process, check and label the corresponding area based on the number of installed battery packs.



# 8 APP Settings

## 8.1 APP Download

- Method 1: Search for "PotisEdge" in Google App Store or Apple App Store to download and install.
- Method 2: Visit the following link with your mobile browser to download:<https://ipotisedge-file.s3.eu-central-1.amazonaws.com/h5/download.html#/pages/download/potisedge>.
- Method 3: Scan the QR code on the equipment.

### ⚠ Instruction

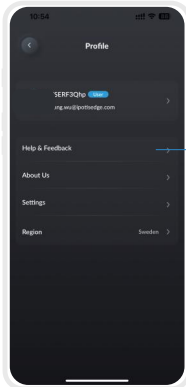


App download

APP access may require certain permissions, such as the location permission. When installing the APP or setting up your mobile phone, you need to grant all access to all pop-ups.

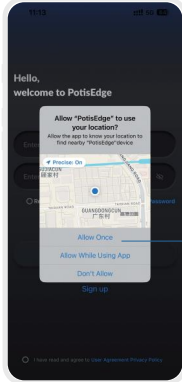
### ⚠ Instruction

Please refer to the quick installation manual or download the electronic user manual in PotisEdge for APP operation.

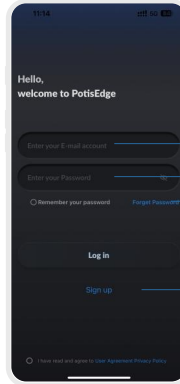


All of the hard copies of the user manual of the company's product families are available on the APP.

## 8.2 Registration and Login



01. Select all authorizations as needed



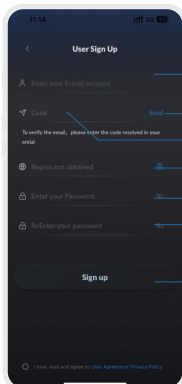
02. Enter the registration email

03. Enter registration password

04. If you forget your password, you can reset or retrieve it

05. If you don't have an account, please register.

If you already have an account, you can log in directly.



06. Enter a valid email

to receive the verification code and to recover or reset the password later.

07. Click "Send"

08. Input the verification code received in the email.

09. Select the registration region (enable location access).

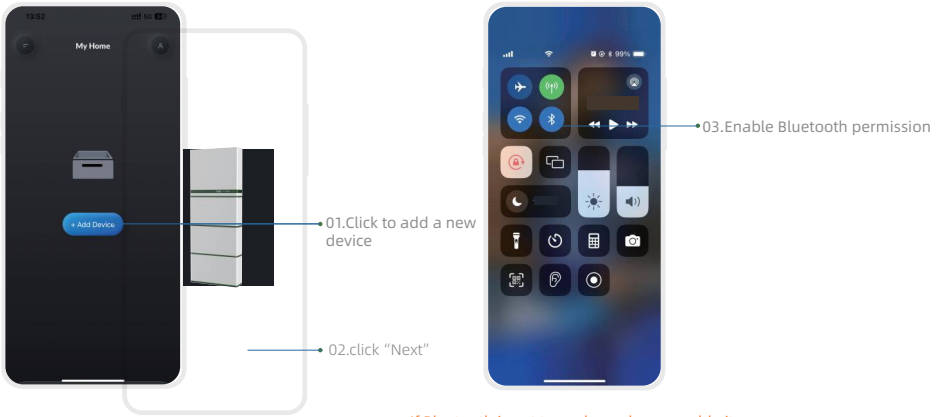
10. Create a password (6-18 characters, using a combination of letters and numbers).

11. Confirm the password

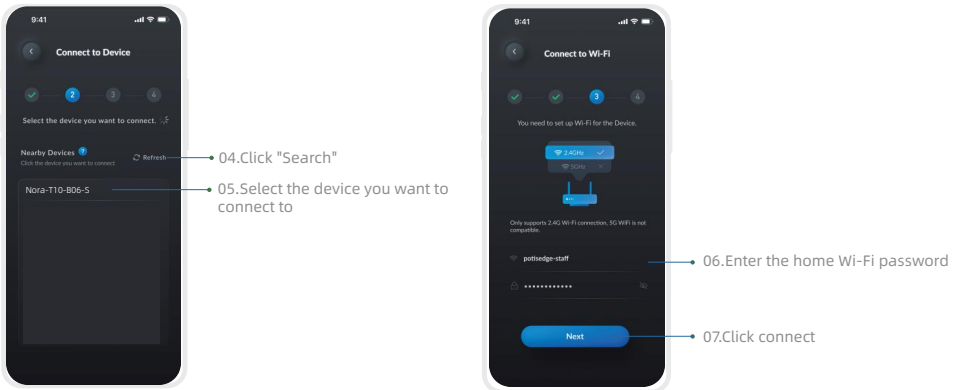
12. Click "Sign Up"

### Registration

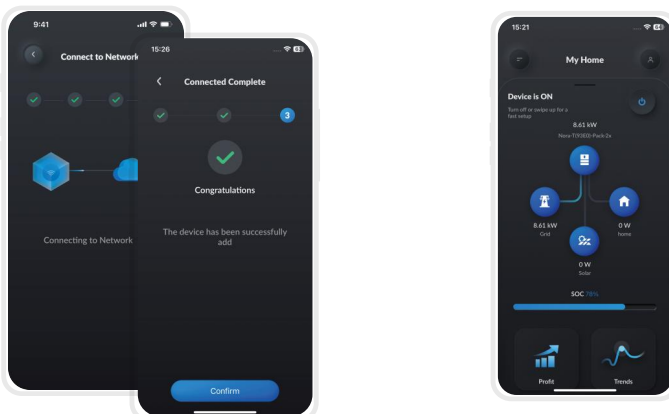
## 8.3 Device and Network Connection



If Bluetooth is not turned on, please enable it; if Bluetooth is already on, ignore this step.



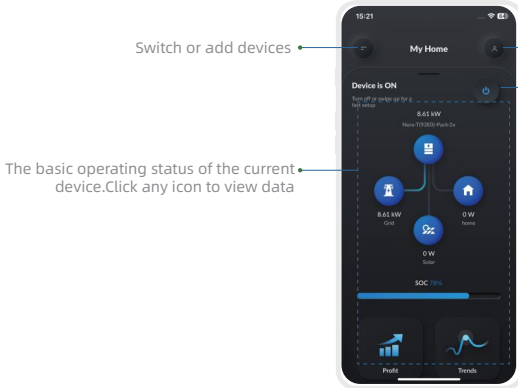
The default Wi-Fi is the one your phone is currently connected to. If you need to connect to a specific Wi-Fi, connect your phone system to that Wi-Fi.



Wait 60-120 seconds for the device to connect. If the connection fails, exit and reconnect or switch Wi-Fi signals.

Once the device is connected, it will automatically return to the "Home" screen, and the product can be ready for use.

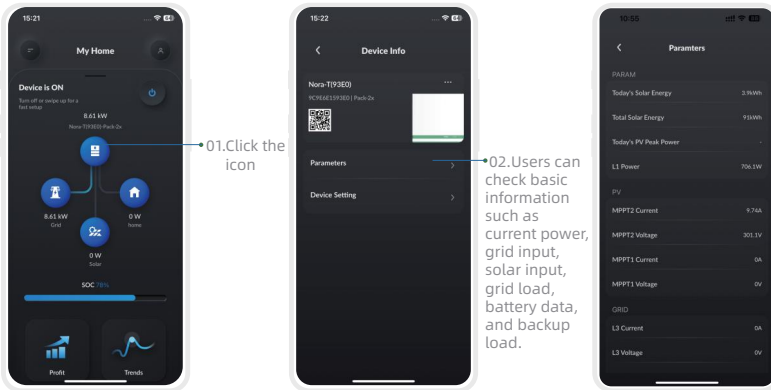
### 8.4 Home Screen Features



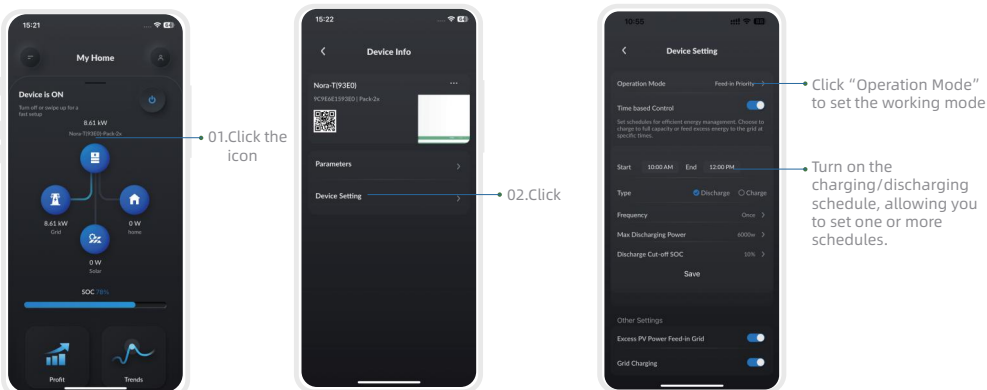
#### ⚠ Danger

01. Only perform remote on/off operations after all installations are completed and verified for accuracy.
02. The device remains in standby mode even when turned off. Before maintenance, ensure the inverter and all DC and AC power sources are completely isolated for at least 10 minutes, then disconnect the air circuit breaker and all battery cabinets.

### 8.5 Viewing Parameters



### 8.6 Setting Charge/Discharge Time Periods



## 8.7 Electricity Price Setting

01. Click "Profit"

02. Click ">"

03. Select currency settings and set fixed or time-based electricity rates. Once completed, the rate statistics will be automatically generated.

## 8.8 Personal Center and Other Settings

Click "Profile Icon"

Change profile photo

Modify account name

Click "Change Password" to change the password

Click "Delete Account" to cancel the account

Click "Log out" to Log out of the account

Select Region

Settings

About Us

Help & Feedback

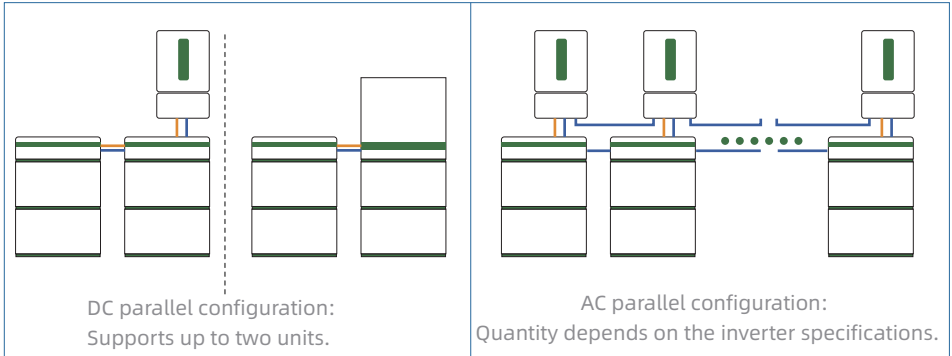
Suggestions and Feedback

Account region settings    Notification settings    Version/upgrade settings    User manual/customer support

# 9 System Parallel Configuration

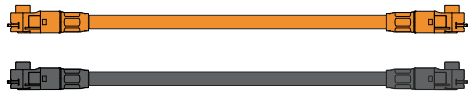
## 9.1 Parallel Configuration Mode

Nora-C06-Bxx supports both DC parallel and AC parallel configurations (inverter required). You can select only one parallel mode at a time, either DC parallel or AC parallel; they cannot be used simultaneously.

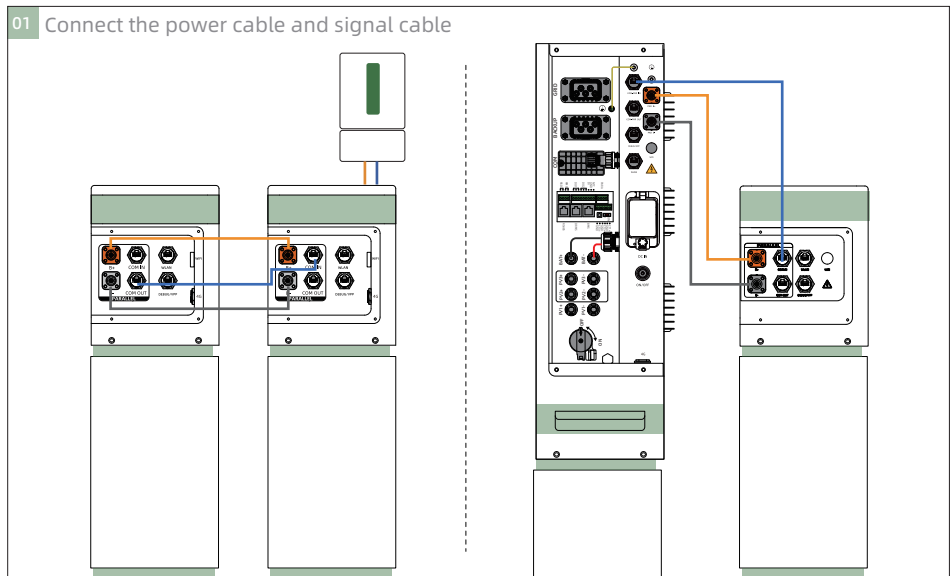


## 9.2 DC Parallel Configuration Mode

Optional components  
for parallel configuration



01 Connect the power cable and signal cable



### 9.3 AC Parallel Configuration Mode

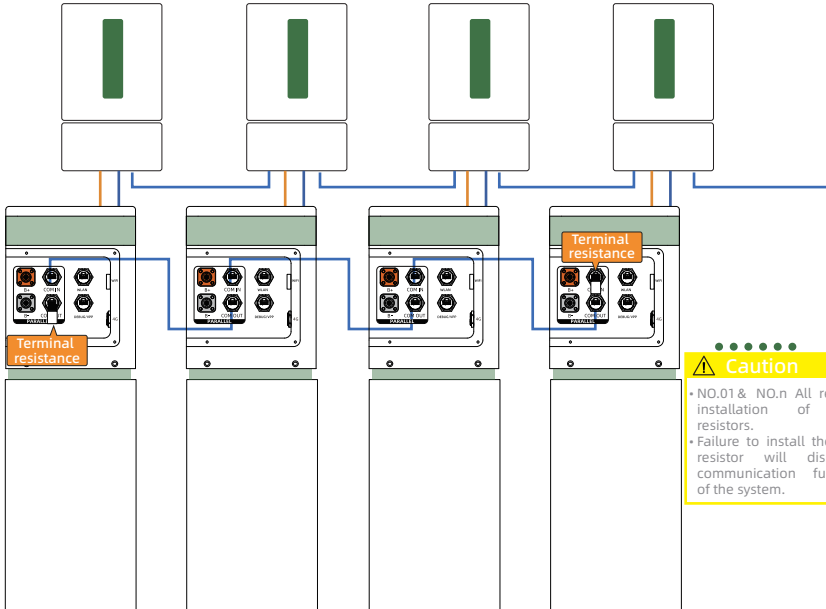
Optional components for parallel configuration



Terminal resistance

01 Connect the power cable and signal cable.

**⚠ Note:** Refer to the PCS manual for the PCS-side configuration.



**⚠ Caution**

- NO.01 & NO.n All require the installation of terminal resistors.
- Failure to install the terminal resistor will disrupt the communication functionality of the system.

#### RJ45 Connector Interface Description



COM IN



COM OUT



NO.	Color	Definition
01	Orange-White	PCS CANH(P)
02	Orange	PCS CANL(P)
03	Green-White	PCS PARA1
04	Blue	EMS CAN3H
05	Blue-White	EMS CAN3L
06	Green	PCS PARA2
07	Brown-White	EMS PARA1
08	Brown	EMS PARA2

## 02 System Startup and Debugging

### ⚠ Danger

01. Before commissioning, please ensure the following: (1) Verify that all wiring is correct; (2) Confirm that the grounding installation is secure and effective. **Access to EPS is strictly prohibited.**
02. Ensure that all circuit breakers on the load side are open and that each neutral wire of the inverter is properly connected.
03. **Only qualified personnel are permitted to configure parallel configuration settings. Users must not attempt to operate these settings.**

- 01 Turn on the grid switch or battery switch, activate the inverter, and place it in standby mode.
- 02 Verify that the PDU GRID or BAT indicators are illuminated.

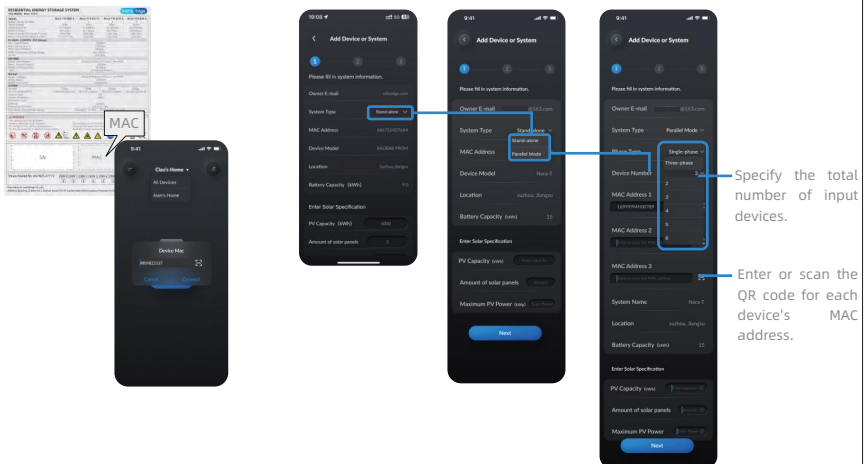
## 03 APP Settings

Enter the settings interface on the app. This operation only needs to be performed on one of the Nora units, and it is recommended to set up the first unit.

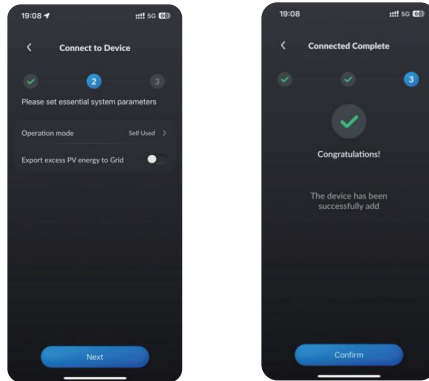
### ⚠ Caution

A Nora unit can only be bound to one installer.  
Without the user's MAC address, the installer cannot access data and information after binding and exiting, ensuring the user's privacy.

- 01 After logging in, the installer should scan MAC QR code for connection
- 02 Fill in or confirm the owner's information. Nora can be configured as either a stand-alone unit or in parallel with other devices. If used as a stand-alone machine, enter the PV parameters and set the working mode. If configuring for parallel operation, select the parallel type, enter the MAC addresses of the other devices in the parallel unit, input the PV parameters, and set the working mode for the parallel unit.



- 03 Set the working mode and complete the configuration. Once the parallel configuration is successful, a success message will appear, and the system will automatically return to the homepage.



### Instruction

01. Ensure that the type and number of parallel units are entered accurately. Incorrect entries will prevent the parallel configuration from completing.
02. If the parallel setup fails, shut down and restart the devices, then repeat the configuration process from the beginning.
03. Parallel setup may fail due to poor WiFi signal, incorrect WiFi connection, improper wiring, or incorrect app operation. Verify these aspects to ensure a successful setup.

### 04 System Power-down

- 01 01Ensure all switches are turned off to disconnect the inverter from any power sources. Leave the inverter uncharged.
- 02 02The inverter's LED display will turn off, and the system will power down completely.

### Danger

Wait at least 10 minutes after the LED display goes off to allow the system to fully discharge before proceeding with any further actions.

- 03 03 Once the parallel configuration is finalized, connect the load (EPS). The system can be used normally after restarting.

### 05 Finishing Installation and Final Checks

- 01.Equipment Fixation: Confirm that all equipment is firmly and reliably installed.
- 02.Cable Layout: Ensure the cable layout is neat and organized to meet user requirements.
- 03.Cable Tie Binding: Cable ties should be evenly distributed, and sharp corners should be avoided to prevent damage.
- 04.Installation Environment: Verify that the installation area is clean, organized, and free from construction debris or remnants.
- 05.Unused Terminals and Connectors: Ensure that waterproof covers are installed on any unused terminals and connectors to protect them from environmental damage.

# 10 System Maintenance

## Danger

- Always follow the User Manual and adhere to relevant international, national, or regional standards, as well as industry-specific safety rules and practices.
- Power off the equipment before performing any cleaning, electrical connections, grounding checks, or other maintenance tasks.
- After disconnecting all batteries and the AC power supply, wait at least 10 minutes for the system to fully power down before beginning any operation.
- Use appropriate protective equipment and insulated tools to prevent electric shock or short circuits.
- Do not smoke or use open flames near the battery.
- Avoid using wet rags, water, or any solvents to clean exposed interfaces or any other electrically conductive parts.

## Warning

- Do not perform maintenance on the battery while it is powered on. After powering off the battery, check the screw torque and tighten the screws as needed.
- Recharge the battery promptly after discharge to prevent damage from over-discharge.
- Before moving or rewiring the equipment, disconnect the power supply's input and output.
- Wait 10 minutes for the internal energy to fully discharge. Only begin maintenance after verifying with a multimeter that no hazardous voltage remains in the DC bus or the components to be repaired.
- Do not connect two or more cables in parallel at the battery's positive and negative terminals.
- When cutting or making cables, work away from the equipment to avoid damage caused by metal shavings, which could harm both personnel and equipment.
- Daily maintenance is carried out by the user themselves. In the event of a malfunction, the device should be shut down immediately and professional personnel should be contacted for maintenance.

## 10.1 Routine Maintenance

- The following operations should be performed every six months:
  - **Inspection and Cleaning:**
    - Inspect and clean the equipment.
    - Check if the heat sink is blocked or dirty.
    - Ensure that the identification labels and nameplates on the equipment are clear and undamaged.
    - Inspect cable ties for any signs of damage.
    - Verify that the surrounding environment continues to meet the installation requirements.
  - **System Operational Status:**
    - Inspect the energy storage system for any signs of damage or deformation.
    - Listen for any abnormal sounds during the operation of the energy storage system.
    - Verify that the system's parameters are set correctly during operation.
  - **Electrical connection**
    - Inspect all cable connections to ensure they are secure and have not become loose or detached.
    - Check cables for any signs of damage, with particular attention to any cut marks on surfaces where cables come into contact with metal.
    - Ensure that unused DC input terminals, energy storage terminals, COM interfaces, and water proof covers are securely locked.
    - Verify that the grounding cable is securely and reliably connected.

## 10.2 Troubleshooting

If Nora does not operate correctly after activation, refer to the troubleshooting table for potential causes. Verify that external conditions, such as temperature and humidity, meet the required specifications. Check for any potential overload that could affect performance.

If the issue persists despite following the troubleshooting instructions, please contact after-sales support for assistance. Repairs should only be carried out by a qualified professional.

## ⚠ Instruction

nora ∞ ●●●● 800.1 📶 🔊 🔌 🔴

Battery Alarm Code

System Alarm: Operating at reduced power.

800.1

Battery Fault Code

P00.1

PCS Fault Code

System Fault: Device stops running.

The error content of different brands of PCS varies. Please refer to the PC manual for details.

### ● Battery Alarm Mechanism

Alarm Code	Description	Trigger Condition	Recovery Condition
800.1	High individual cell voltage	Warning threshold: 3.6V	Recover to 3.4V
800.2	Low individual cell voltage	Warning threshold: 2.7V	Recover to 3.0V
800.3	High battery voltage	Warning threshold: 345.6V	Recover to 326.4V
800.4	Low battery voltage	Warning threshold: 295.2V	Recover to 288V
800.5	High individual cell voltage difference	Warning threshold: 0.8V	Recover to 0.5V
800.6	High individual cell temperature	Warning threshold: 55°C	Recover when temperature drops to 50°C
800.7	Low individual cell temperature	Warning threshold: 4°C	Recover to 6°C
800.8	High individual cell temperature difference	Reaches alarm threshold	—
800.9	Charge overcurrent	Warning at 105% of allowable limit	Recover when current drops to within 100% of allowable limit
80.10	Discharge overcurrent	Warning at 105% of allowable limit	Recover when current drops to within 100% of allowable limit
80.11	Battery pack disconnection	Active, triggers when 1 or 2 battery packs disconnect	Recover when all battery packs are online
80.12	Pre-charge failure	Warning when 1 or 2 batteries fail to charge	Recover when all battery packs are online

## ● Battery Fault Mechanism

Fault Code	Description	Trigger Condition	Recovery Condition
8017	High individual cell voltage	Protection triggered at 3.65V	Restart the system to recover
8018	Low individual cell voltage	Protection triggered at 2.5V	Restart the system to recover
8019	High battery voltage	Protection triggered at 350.4V	Restart the system to recover
8020	Low battery voltage	Protection triggered at 240V	Restart the system to recover
8021	High individual cell voltage difference	N/A	
8022	High individual cell temperature	Protection triggered at 60°C	Restart the system to recover
8023	Low individual cell temperature	Protection triggered at -21°C (No heating) ; -31°C (No heating)	Restart the system to recover
8024	High individual cell temperature difference	Reaches alarm threshold	
8025	Charge overcurrent	Protection triggered at 110% of allowable limit	Recover when current drops to within 100% of allowable limit
8026	Discharge overcurrent	Protection triggered at 110% of allowable limit	
8027	Battery pack disconnection (system disconnection)	No packs are online in a single cluster	Restart the system. If the issue persists after three restart attempts, contact after-sales service for assistance.
8028	Pre-charge failure (System pre-charge failure)	Pre-charge failed for all battery packs	
8029	Low insulation warning (Insulation below 100Ω/V)	Protection triggered at 100Ω/V	
8030	Precharge resistance overtemperature	Protection triggered at 90 °C	Restart the system. If the issue persists after three restarts, contact after-sales service.
8031	BMS communication failure with PCS	Communication loss for 5 seconds or more	Restart the system. If the issue persists after three restart attempts, contact after-sales service for assistance.
8032	BMS intranet communication loss	Communication loss for 5 seconds or more	
8033	Excess number of parallel units	Protection trigger: Exceeds allowable number of parallel units	Reduce the number of parallel units and restart the system to recover.
8034	Relay/air circuit breaker adhesion fault	WiFi detects a voltage of 38V or higher on the DC side of the PCS and HVB	Restart the system. If the issue persists after three restart attempts, contact after-sales service for assistance.
8035	Open circuit fault in relay or air circuit breaker	WiFi detects a voltage of 38V or higher on the DC side of the PCS and HVB	
8036	Thermal runaway fault protection	max ≥ 65 °C	Restart the system. If the issue persists after three restarts, contact after-sales service.
8037	Battery cell damage	Voltage < 2V (when Tmin ≥ 0°C) and Vmax ≤ 3.65V, or Vmin < 1.5V (when Tmin < 0°C) and Vmax ≤ 3.65V	Shut down the system and contact after-sales service
8038	Temperature probe damage	Temperature reading at -40°C	
8039	Damaged collector or loose wiring harness	The voltage difference between two adjacent strings ≥ 1 VH adjacent strings ≥ 1 VH	
8040	Heating failure	7 times to start heating (<24h) or Heating Temperature ≥85°C or Heating Time ≥3H or Tmin < 0°C& Charging≤0.5A	

### 10.3 Emergency Response

In case of equipment abnormality and accident, take prompt and effective measures in time to prevent further damage and loss.

#### 01. Overheating:

If the temperature of the battery pack exceeds the safe operating limit, the management system will issue a warning and instruct you to stop using the equipment immediately.

#### 02. Leakage:

If battery leakage occurs, immediately evacuate the area and notify technicians to handle the situation on-site. Do not restart the device until the issue has been fully resolved. Avoid using any system that exhibits abnormalities.

#### 03. Short circuit:

In case of a short circuit, evacuate all personnel immediately. If possible, disconnect the power supply and the battery from the equipment, then notify technical personnel for repair and troubleshooting. Equipment and devices that have been severely short-circuited must undergo rigorous testing by the manufacturer before being deemed safe for further use.

#### 04. Collision:

If the equipment is impacted, deformed, or pierced by foreign objects, immediately disconnect the power cable. Notify professional technicians to manage the situation. In special circumstances, ensure that appropriate protective equipment is worn before handling or disassembling the equipment.

#### 05. Fire:

Step 1: Evacuate all personnel to a designated isolation area for safety and call the fire department.

Step 2: If conditions allow and personal safety is ensured, carry out the following actions:

- If the harness smokes or catches fire, use a carbon dioxide or dry powder fire extinguisher to put out the fire.
- If the energy storage battery is on fire, use a high-pressure water hose from a safe distance to extinguish the fire.
- If smoke is inhaled, evacuate immediately and seek medical attention as soon as possible.

Step 3: Inform the equipment manufacturer to obtain further instructions on handling the situation.

## 06. Flooding

Step 1: Determine whether the equipment is powered on. Regardless, evacuate all personnel to a designated isolation area for safety.

Step 2: Notify the equipment supplier to perform maintenance after the floodwaters have receded.

Step 3: Do not restart the system until the manufacturer has confirmed that it is safe to do so.

## 07. Other accidents:

When repairing or removing the equipment due to other accidents, first disconnect the battery circuit to avoid electrocution. Do not disassemble the equipment until you are sure that no short circuit will occur. Check carefully to ensure that no secondary damage, such as collision, fall, inversion, or other reasons, will arise.



### Danger

If any condition arises that may cause significant damage to the battery or equipment, contact after-sales personnel immediately. Do not attempt to disassemble the equipment without permission.

If the copper wire inside a conductive wire is exposed, do not touch it under any circumstances. High voltage can be fatal. Contact after-sales personnel for assistance.

Do not disassemble the equipment without authorization.

In the case of other emergencies, promptly contact after-sales personnel for guidance or wait for them to handle the situation on-site.

## 10.4 Battery Recycling

PotisEdge does not recycle batteries. Please dispose of waste batteries in accordance with local laws and regulations. Do not dispose of batteries with household waste, as improper disposal can lead to environmental pollution or even explosions.

If no local recycling facility is available, customers are advised to contact the nearest national or regional recycling agency for proper disposal.

### Warning

- If the battery leaks or becomes damaged, please contact technical support or a battery recycling company for proper disposal.
- When the battery reaches the end of its service life, contact a battery recycling company for disposal.
- Avoid exposing used batteries to high temperatures, direct sunlight, high humidity, or corrosive environments.
- Secondary use of faulty batteries is strictly prohibited. Contact a battery recycling company as soon as possible to prevent environmental pollution.

#### Recycling process:

Step 1 Contact the nearest recycling agency.

Step 2 The recycling agency will assess the cost of recycling.

step 3 The recycling agency will carry out recycling, which can be done in two ways:

**On-the-spot recycling:** The recycling agency visits the location where the Li-ion batteries are used to collect and recycle the spent batteries. The service charge is determined by factors such as distance and transportation costs.

**Centralized recycling:** Scrap Li-ion batteries are collected at a designated location, where the recycling agency will then carry out the recycling process.

# 11 After-sales Service

PotisEdge offers a comprehensive range of technical support and after-sales services. The free warranty is provided according to the terms of the contract or warranty agreement.

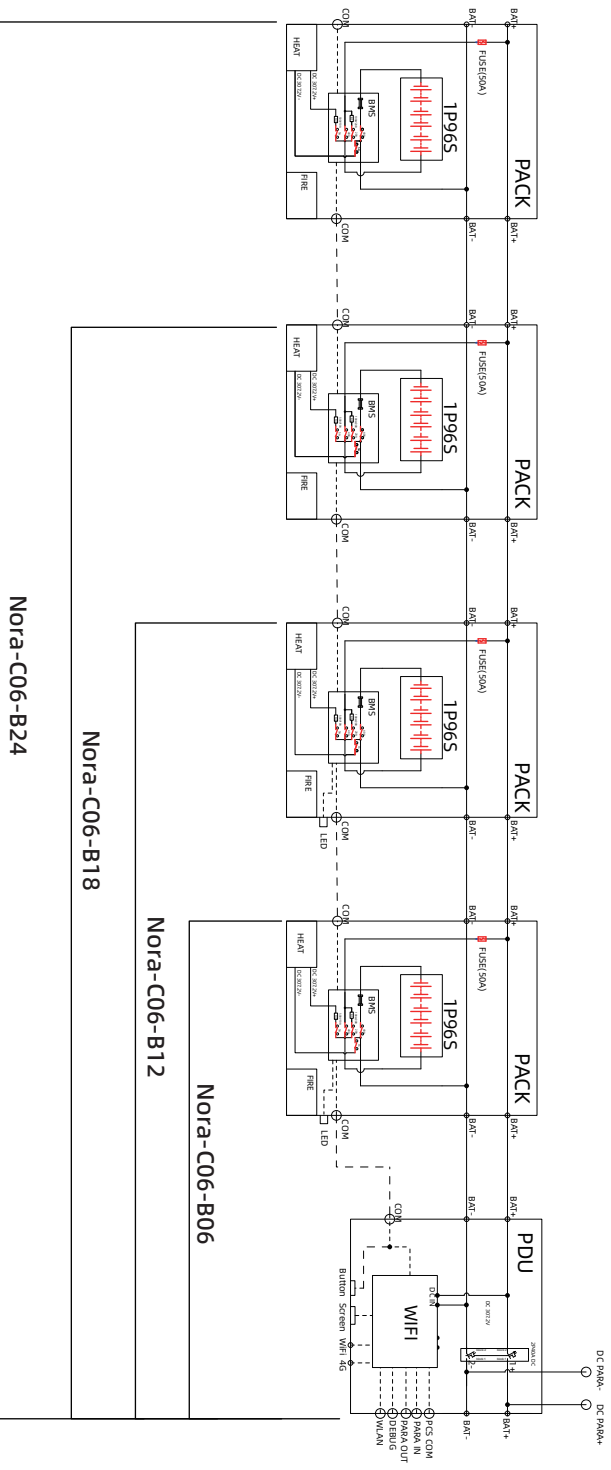
However, the following conditions are not covered under the free warranty services:

- Damage to the system or subsequent failures resulting from operations not conducted in accordance with the instruction manual.
- Damage or malfunction caused by wiring and power supply installations that do not comply with relevant electrical safety regulations, or due to poor site conditions.
- Damage or malfunction caused by unauthorized modifications by the user.
- Damage or failure due to force majeure events such as typhoons, earthquakes, floods, fires, or exposure to harsh environments (e.g., extreme temperatures, high humidity, acid rain).
- Failure to maintain the system in its initial state after a malfunction, or failure to notify the manufacturer promptly, leading to attempts to fix the issue independently and making it difficult to identify the root cause of the problem.

Should you have any questions about the equipment, please contact us. To help us provide you with faster and more efficient service, please provide the following information:

- |                     |                                       |
|---------------------|---------------------------------------|
| (1) Equipment model | (2) Equipment serial number (SN code) |
| (3) Fault code/name | (4) Brief description of the fault    |

# ANNEX 01 Schematic Diagram



# Service Card

Product Information			
Product Model		SN Number	
Dealer		Sales Date	
Installer		Warranty Period	
After-Sales Contact		After-Sales Address	
Warranty Details	Please refer to the warranty agreement for comprehensive warranty regulations. The warranty period begins from the date indicated on the purchase invoice. Be sure to retain the invoice for your records. Any additional warranty conditions are outlined below (valid with company stamp):		

Maintenance Record				
Date	Fault Description / Code	Fault Cause	Handling Status	Responsible Person

If the product you purchased malfunctions or is defective, please contact the dealer or our after-sales service team.

☎ 0512-66915889(China)  
(+46) 736105582(EU)  
(+61) 0385 228 884(AUS)

✉ sales@ipotisedge.com(China)  
support@ipotisedge.com(EU)  
service@ipotisedge.com(AUS)

Please ensure the serial number entered matches the actual product. This service card is essential for after-sales support, so keep it in a safe place. If you require technical assistance, please present this card, and we will deliver professional, high-quality service.



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