



Installation Manual

Risen Stack1 Series

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Contents

1 About This Manual	1
1.1 Preface	1
1.2 Content Overview	1
1.3 Safety Instruction Levels	2
1.4 Symbols on the Product	3
1.5 Lockout/Tagout (LOTO)	5
1.6 General Precautions	5
1.7 Emergency Response	7
1.8 Operational Guidelines	7
1.9 Personal Protective Equipment	8
2 Maintenance & Service	8
2.1 Environmental Requirements	8
2.2 Cleaning & Care	8
2.3 Maintenance	9
3 Product Overview	9
3.1 Applicable Products	9
3.2 Core Components	9
4 Transportation & Storage	9
4.1 Packaging	9
4.2 Energy Block	9
4.3 Energy Router Packaging	10
4.4 Air Duct Packaging	10
4.5 Base Frame Packaging	11
4.6 Transportation	11
4.7 Transportation Environmental Requirements	12
4.8 Storage	12
4.9 Safety Precautions	12
5 Installation	13
5.1 General Requirements	13

5.2 Site & Environmental Requirements	14
5.3 Installation Clearance	14
5.4 Wire Specifications	14
5.5 Installation Procedure	15
5.6 System Inspection	24
6 Note	25
6.1 RCD Suggestion	25
6.2 Grid connection instructions	25
6.3 Power Activation	26
7 Installation and Maintenance Personnel Requirements	26
8 Contact Information	26

Risen Stack1 Series Installation Manual

1 About This Manual

1.1 Preface

Dear User,

Thank you for choosing the energy storage system products developed and manufactured by Risen Energy Co., Ltd. We sincerely hope this product meets your needs and welcome your valuable feedback on performance and functionality. We are committed to continuous improvement and enhancing product quality.

1.2 Content Overview

This product comes with two manuals. This one provides information related to installation, as well as usage instructions and other details. For the rest of the information, please refer to product manual.

This manual includes the following sections:

➤ Safety Instructions

Guidelines for safe operation of the energy storage system.

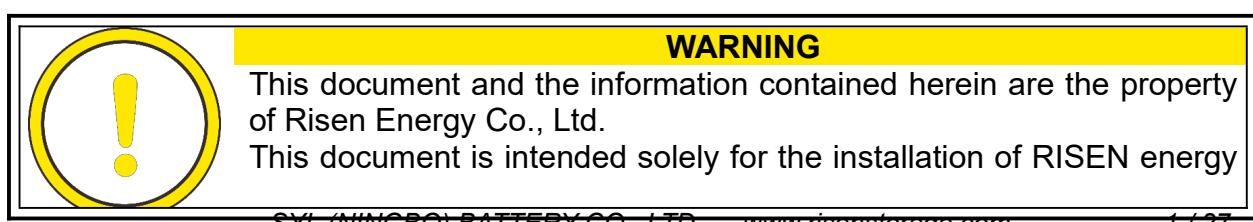
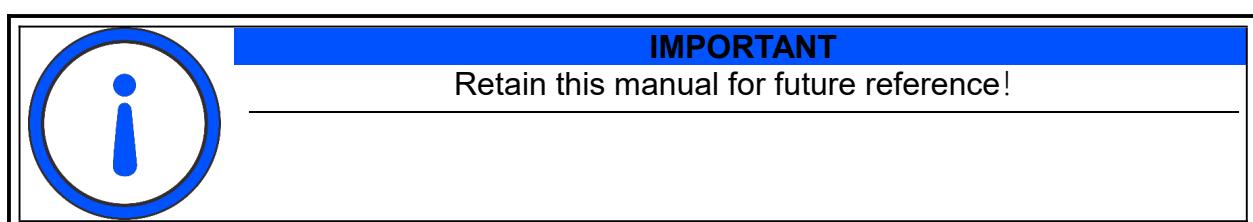
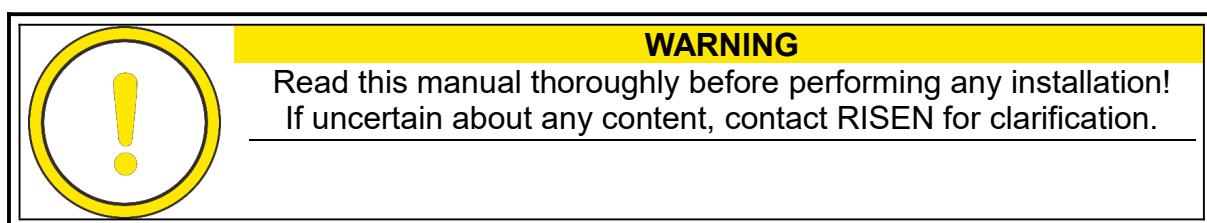
➤ Product Operation

Procedures for system activation, deactivation, and power management.

➤ Other Information

Troubleshooting methods and RISEN contact details.

Important Notices



storage system products. No part of this publication may be used for any other purpose without the prior written consent of Risen Energy Co., Ltd.

**IMPORTANT**

While we have made every effort to ensure the accuracy of this document, Risen Energy Co., Ltd. shall not be held liable for any errors or typographical mistakes herein. This document is subject to change without prior notice.

**WARNING**

RISEN batteries and energy storage systems must be installed in accordance with the detailed instructions provided in this document.

Any deviation from the prescribed procedures for purposes not approved by RISEN may result in product damage and void the equipment warranty.

Tasks described in this document shall only be performed by qualified personnel.

Qualified personnel must possess the following competencies:

- Training in hazard and risk mitigation related to product installation.
- Certification in electrical equipment installation.
- Knowledge of all applicable laws, regulations, standards, and directives.
- Full compliance with this document and all safety protocols.

1.3 Safety Instruction Levels

To ensure personnel safety and equipment integrity, critical instructions are highlighted with symbols:

**DANGER**

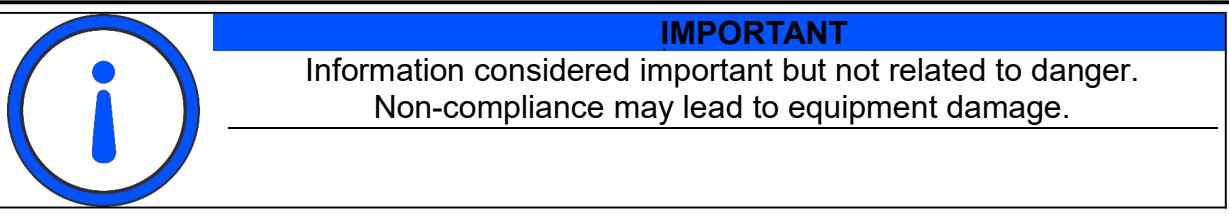
Non-compliance may result in death or severe injury.

**WARNING**

Non-compliance may cause serious accidents or injury.

**CAUTION**

Non-compliance may cause minor accidents or moderate injuries.



1.4 Symbols on the Product



Hazardous voltage. Risk of electric shock or burns. Authorized personnel only.



Dangerous, be careful when handling batteries.



Rechargeable battery. Do not dispose of as household waste.



Do not damage batteries by dropping, deforming, impacting, cutting, or piercing.



Fire/explosion hazard. No smoking, open flames, sparks, or embers near batteries.



Store out of reach of children, pets, and animals.



Heavy weight. Single-person handling may lead to injury. Always use proper lifting tools or seek assistance when moving or lifting.



Electrolyte is highly corrosive.



Risk of explosion.



Before working on the battery, follow the installation and operating instructions in the manual.



Wear goggles and protective clothing when working with batteries. Observe accident prevention regulations.



Wear protective gloves and clothing when handling batteries.



Avoid contact with eyes, skin or clothing when electrolyte is leaking. In the event of an accident, immediately flush with water and seek medical help.

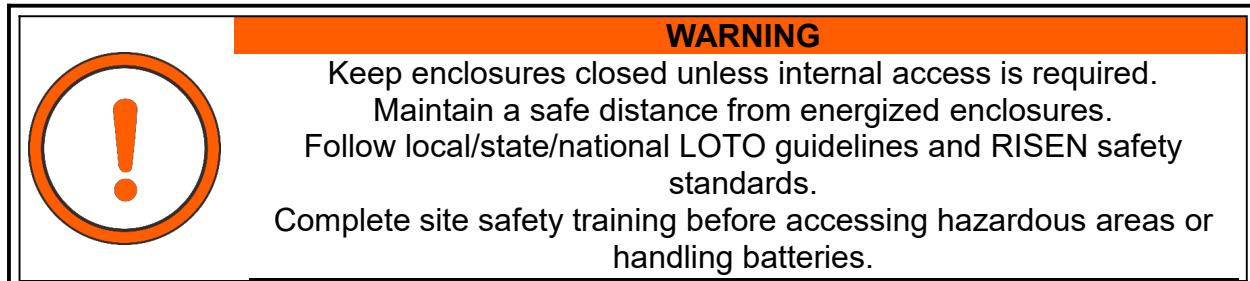
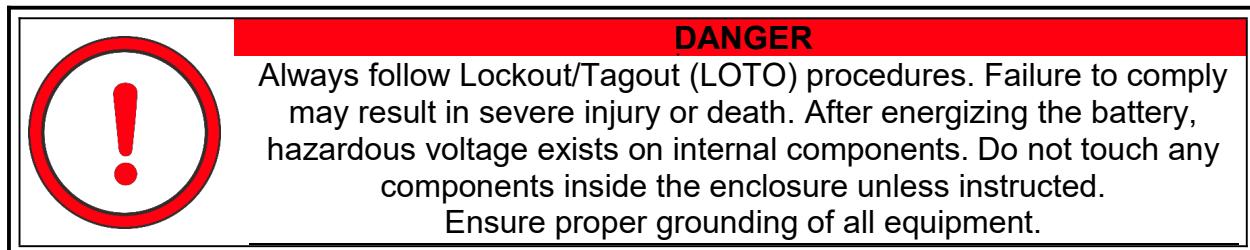


Recycle per local regulations.

Security Guidelines

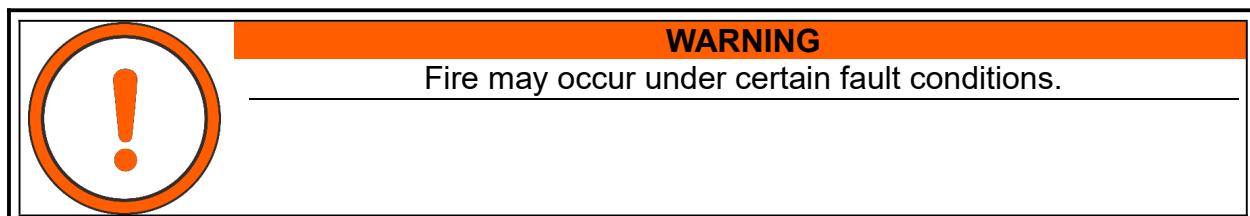
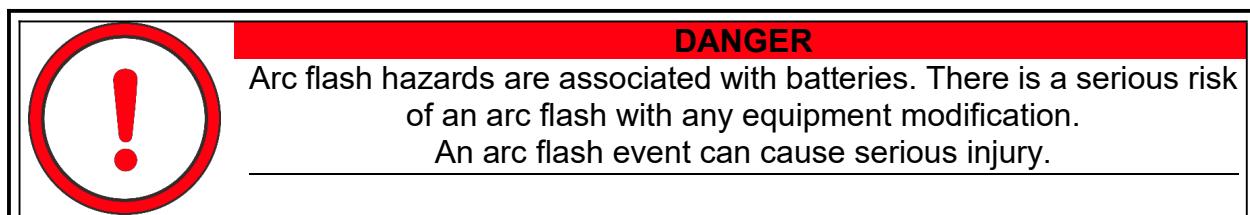
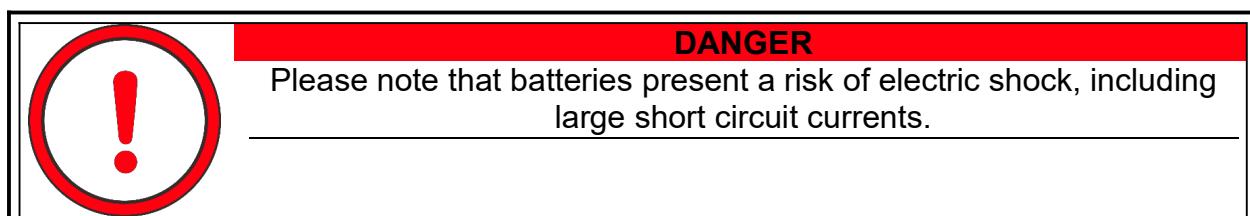


1.5 Lockout/Tagout (LOTO)



1.6 General Precautions

Follow all safety precautions during installation.



**WARNING**

Remove watches, rings or other metal objects.
Wear appropriate PPE according to local codes and regulations.

**WARNING**

Use tools with insulated handles to avoid accidental short circuiting.
Do not place tools or any metal parts on top of the battery.

**WARNING**

Do not open or damage the battery.

**WARNING**

Batteries should be disposed of in accordance with the RISEN recycling policy, disposal of batteries in a fire may cause an explosion.

**WARNING**

Sharp and pinch points exist on most system components. Be aware of the risk of serious injury when working near equipment batteries.

**CAUTION**

Components in the battery system can be damaged by electrostatic discharge. Always wear a grounded, antistatic wrist strap and discharge static electricity by touching a grounded surface near the equipment before touching any system components.

**CAUTION**

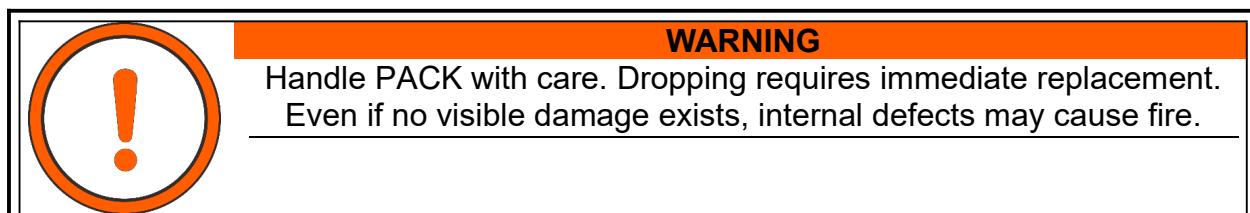
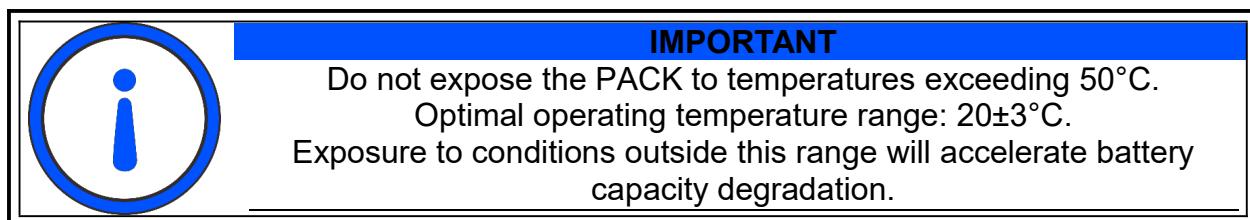
Damage, mishandling or exposure to conditions beyond those recommended by RISEN may result in the leakage of flammable gases, leading to a hazardous situation.

1.7 Emergency Response

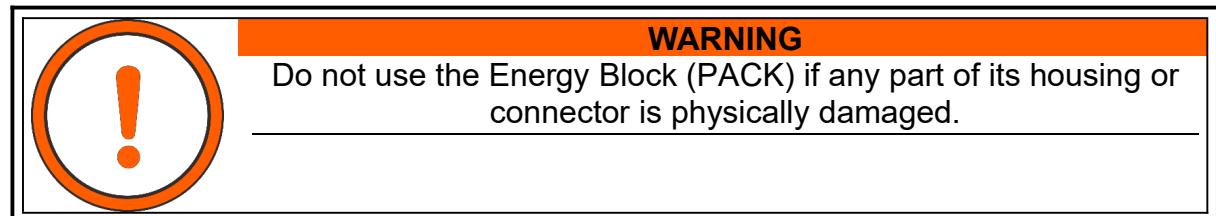
If the battery casing is compromised, exposing internal materials (e.g., electrolyte):

1. Inhalation: Evacuate the area immediately. Seek medical attention.
2. Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention.
3. Skin Contact: Wash affected area thoroughly with soap and water. Seek medical attention.
4. Ingestion: Induce vomiting. Seek medical attention.
5. Fire During Charging: Isolate the battery by cutting power. Use Class D fire extinguishers.
6. Containment Procedures:
 - a. On Land: Move the damaged battery to an isolated area. Contact local fire department or RISEN service engineers.
 - b. Submerged in Water: Wait for floodwaters to recede. Do not approach. Do not reuse the battery. Contact RISEN service engineers. If entry is unavoidable, wear insulated full-length rubber boots and gloves.

1.8 Operational Guidelines



The energy block (PACK) must be handled with care, any shock or excessive mechanical loading may result in serious damage. If the module is dropped during handling, storage or installation, the Energy Block (PACK) should be returned to a RISEN Service Center for inspection.



Do not place the Energy Block (PACK) on flammable building materials, in areas where highly flammable materials are stored, in potentially explosive environments, or in high humidity environments.

Do not stack anything on top of the Energy Block (PACK).

Any mishandling of the Energy Block (PACK), including dropping, deforming, striking, cutting, or penetrating, can damage the unit and may result in fire.

Always make sure the top side of the cell is facing up, do not turn the module upside down.

1.9 Personal Protective Equipment

Be aware that batteries may pose a risk of electric shock, including high short-circuit currents. Follow all safety precautions when handling batteries. During installation or maintenance of the battery system, workers should wear appropriate personal protective equipment such as goggles, high visibility clothing, protective gloves, and protective footwear. Insulated gloves in excess of the 1500 VDC rating are required for connecting bus bars and jumper cables between modules and battery clusters.

2 Maintenance & Service

2.1 Environmental Requirements

The Risen Stack1 series products operate within the following temperature ranges. Under extreme conditions, charge/discharge power may be limited to prolong battery life. For optimal performance, maintain the average ambient temperature within the recommended range over the system lifecycle:

Operating Temperature	Discharge: -20°C to 55°C Charge: 0°C to 55°C
Optimal Temperature	20±3°C
Average Temperature	20°C

2.2 Cleaning & Care

For outdoor installations: Keep side panels clear of leaves/debris to ensure airflow.



WARNING: Do not stack objects or hang items on the system, cables, or conduits.



WARNING: To clean the Risen Stack1, use a soft, lint-free cloth. If necessary, only dampen the cloth with mild soap and water.



WARNING: Do not use cleaning solvents to clean the Risen Stack1 or expose the Risen Stack1 to flammable or irritating chemicals or vapors.

2.3 Maintenance

The Risen Stack1 series products require regular maintenance. Please refer to Chapter 5 of the product manual for details.

3 Product Overview

3.1 Applicable Products

This document applies to the installation, operation, and system management of the Risen Stack1 Series Stacked Energy Storage All-in-One Units, targeting system operators. The Risen Stack1 Series comprises seven models: SU48E24LM, SU60E30LM, SU72E36LM, SU84E42LM, SU96E48LM, SU108E54LM, and SU120E60LM.

3.2 Core Components

- (1) Energy Block
- (2) Energy Router
- (3) Thermal Management System
- (4) Matching Connectors & Accessories

4 Transportation & Storage

4.1 Packaging

The system is packaged as an integrated unit to protect against harmful gases, chemical contamination, electrostatic discharge, moisture, and mechanical damage during handling, transportation, and storage. Product name, specifications, manufacturing date, quantity, and batch number are marked on the packaging.

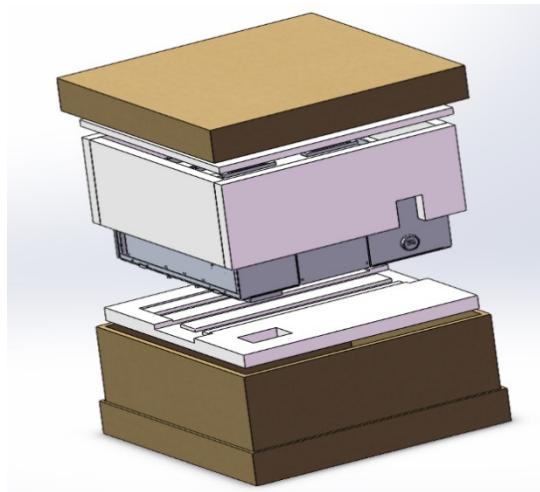
4.2 Energy Block

Packaging Procedure:

Step 1: Position the pallet horizontally.

Step 2: Place the carton horizontally. Position the battery pack securely in the recessed area of the foam.

Step 3: Install the corrugated carton enclosure.



Energy block packaging (picture for illustration only)

4.3 Energy Router Packaging

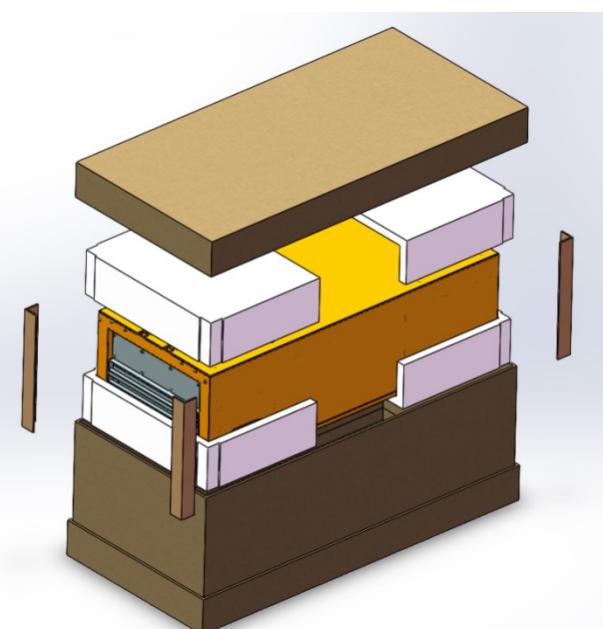
The procedure for energy router packaging is as follows:

Step 1: Position the carton horizontally. Secure the Energy Router in the recessed area of the bottom foam insert.

Step 2: Place the bottom foam insert into the carton base.

Step 3: Position the Energy Router into the foam recess. Install side foam inserts around the unit for lateral protection.

Step 4: Place the top foam insert over the Energy Router. Close the carton lid and cross-seal all openings with reinforced tape.



Energy Router Packaging (picture for illustration only)

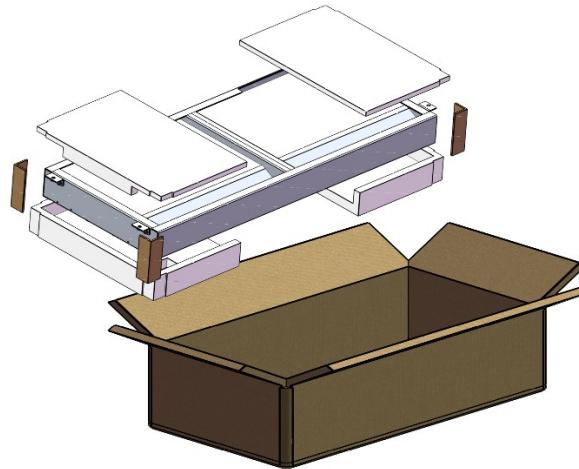
4.4 Air Duct Packaging

Packaging Procedure:

Step 1: Place the carton horizontally. Position the air duct securely in the recessed area of the foam.

Step 2: Place the air duct into the recessed area of the pallet. Secure with customized foam inserts.

Step 3: Assemble the corrugated carton enclosure.



Air Duct Packaging (picture for illustration only)

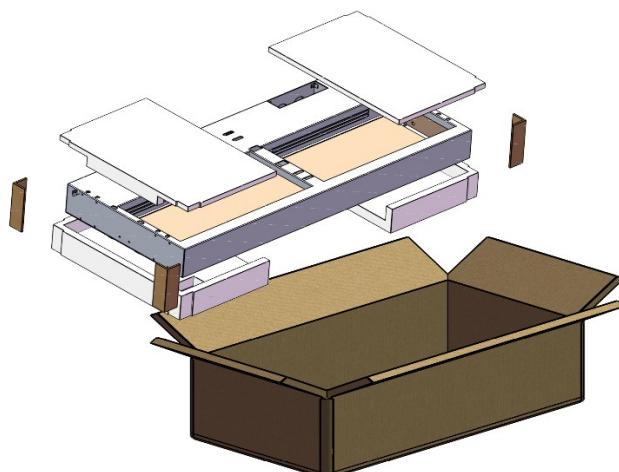
4.5 Base Frame Packaging

Packaging Procedure:

Step 1: Place the carton horizontally. Position the base securely in the recessed area of the foam.

Step 2: Place the base frame into the pallet's recessed area. Secure with high-density foam inserts.

Step 3: Install the reinforced carton enclosure as illustrated.



Base Frame Packaging (picture for illustration only)

4.6 Transportation

Cars and boats are preferred for transportation, and shade and sun protection should

be ensured during transportation. Please load and unload in a civilized manner. The box containing the product can be transported by any mode of transportation. The product should be carefully and gently placed during loading and unloading. Be careful of throwing, tumbling and heavy pressure. Avoid direct contact with rain, snow and mechanical shock.

4.7 Transportation Environmental Requirements

To optimize battery performance during transit and storage:

Recommended Temp: $\leq 20 \pm 3^\circ\text{C}$

Permitted Temp. Range: $-30 \sim +60^\circ\text{C}$

Altitude: $\leq 2000\text{m}$

Humidity: $< 85\%$ (non-condensing)

Battery Transport:

Maintain SOC between 30–50%. Prevent short circuits and liquid ingress (water, oil, etc.).

4.8 Storage

The system should be stored in a dry warehouse, avoiding exposure to sunlight and rain. No harmful gases, flammable and explosive products and corrosive chemicals are allowed in the warehouse. Keep away from mechanical shock, heavy pressure and strong magnetic field. Avoid direct sunlight, and the distance from the heat source should be more than 2m. The box should be at least 20cm high from the ground and at least 50cm from walls, windows or air intakes.

Under all the conditions stipulated in this specification, the product should be charged at least once every 3 months to keep the SOC at 50%; products stored for more than 6 months must be checked for capacity; products stored for more than one year must be re-examined and qualified before being put into use.

4.9 Safety Precautions

4.9.1 Moisture & Waterproofing

The battery system contains control lines and cells. Protect it from liquid immersion, humidity, and direct exposure to rain/sunlight. Liquid ingress may cause short circuits, leakage currents, or corrosion. If submerged or rained on, perform immediate maintenance.

4.9.2 Thermal Insulation

The battery system must operate within the optimal temperature range to extend
SYL (NINGBO) BATTERY CO., LTD. www.risenstorage.com

service life and enhance safety performance. Temperature limits must strictly comply with all specifications defined in the documentation. The installation area should be well-ventilated and designed with thermal insulation.

4.9.3 Shock & Impact Protection

In the battery system, the batteries are connected in series and parallel, and the management system and various sensing devices are installed. The battery system must be installed firmly and reliably without any loosening or shaking, the battery system is strictly prohibited to be installed in reverse or tilted, while the bottom of the battery system must be installed with anti-vibration padding pads to ensure the reliability of the battery system. The battery connections in the system will not be affected by severe vibration during use. Battery system installation space must be installed around the perimeter of the sufficient strength of the impact device to ensure that the general collision will not cause safety accidents (such as direct short-circuit, overheating, combustion), and will not directly cause injury.

4.9.4 Insulation

All power connections must have insulation protection. Prevent contact between terminals and the enclosure to avoid short circuits or electric shocks.

4.9.5 Unobstructed Airflow

During high-current charge/discharge cycles, batteries generate heat. The thermal management system uses forced-air cooling for heat dissipation. Ensure the air intake/exhaust vents remain unobstructed and airflow meets design specifications. Failure to comply may cause severe performance degradation, operational failure, or thermal runaway.

5 Installation

5.1 General Requirements

The Risen Stack1 contains hazardous components. Improper installation by unprofessional personnel may result in electric shock, fire, or explosion. Battery systems must be installed and maintained by specialized technicians and used in strict accordance with relevant safety regulations.

[Important Notice] Installation must adhere to local regulations. RISEN assumes no liability for damages caused by non-compliant installation or misuse.

Installation Guidelines

- The product should be placed horizontally on the ground during installation to ensure smooth placement without shaking or tilting.

- The installation of the product should take into account the installation ground, floor loading and carrying capacity (according to the requirements of architectural drawings).
- The installation environment of the product should be well ventilated; the battery system should not be installed in a place with too high or too low temperature and high humidity, the battery system should be kept away from water, flammable gases, corrosive chemicals and heat sources, and direct sunlight should be avoided, and the inlet/outlet should be as dust-free as possible.
- The product should not be used in environments with dust, volatile gases, corrosive gases or high salt content, and flammable and explosive materials are strictly prohibited around the product.
- In order to reduce the possibility of fire and the damage caused, the walls, ceiling and floor of the room where the battery system is located should be made of fireproof materials as far as possible, and equipped with dry powder portable fire extinguishers.

5.2 Site & Environmental Requirements

Temperature, humidity, and altitude requirements align with storage and operational specifications. Additional floor flatness criteria:

Level deviation: $\leq \pm 5$ mm.

Planarity deviation: $\leq \pm 2$ mm per 2 m.

5.3 Installation Clearance

To ensure proper ventilation for the commercial & industrial Risen Stack1 maintain sufficient clearance around the equipment during installation.

For specific requirements regarding minimum maintenance access, escape routes, etc., refer to applicable standards in the project's country/region.

- Floor placement: Load-bearing capacity ≥ 3 tons/ m^2 , level surface with no vibration sources.
- Clearance: Minimum 1.5m clearance on all sides (for heat dissipation and fire safety access).

5.4 Wire Specifications

To standardize AC/DC connectors or PCS-compatible terminals, wiring connections must meet the following requirements:

- AC Cable: 25mm² or 4AWG cable (The attachment comes with an AC connector. The AC cable needs to be provided by the customer themselves. Picture 5-4-1)
- DC cable: 50mm² (Attachment included as a gift. Picture 5-4-2)
- Use shielded standard communication cables (Customer-provided.)

➤ PE: 10mm² or 8AWG (The PE cable and O-type terminals need to be provided by the customer themselves.)



Picture 5-4-1



Picture 5-4-2

5.5 Installation Procedure

5.5.1 System Assembly

Step 1: Place the base horizontally; verify levelness with a precision level. Secure all four corners with expansion bolts. Connect the PE cable properly.

Step 2: Energy Blocks vertically on the base (max 2 columns × 5 layers). Align electrical connectors and secure with side panels.

Step 3: Mount the Air Duct atop the Energy Blocks. Dock the electrical plugs and make sure the stack is positioned in place, then fasten side panels.

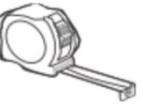
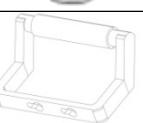
Step 4: Install the Power Router on the Air Duct. Dock the electrical plugs and make sure the stack is positioned in place, then fasten side panels.

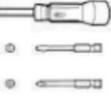
Step 5: Attach end plates to complete the enclosure.

For visual guidance, refer to the RISEN Installation Video.

5.5.2 Connection Preparation

Installation Tools List

No.	Image	Name
1		Torx screwdriver
2		Electric auxiliary tools
3		Measuring tape
4		Insulated gloves
5		Battery module installation handle

6		Hex key wrench
7		Multimeter
8		Vacuum cleaner
9		Lifting tools (as required)



DANGER

Components of the energy storage system deemed de-energized may carry lethal high voltage during ground faults. Risk of accidental contact! Before any operation, verify the grounding system is fault-free and implement safety precautions.



NOTICE

Electrical connections must be performed only by qualified electricians. Follow internal wiring labels strictly.



WARNING

Ensure all dc/ac switches of the Risen Stack1 are disengaged before initiating electrical connections.



NOTICE

Cable rated voltage must exceed the system's three-phase instantaneous ac voltage. For dc cables, voltage rating \geq maximum dc voltage of li-ion batteries.



WARNING

Inspect cables for intact insulation before connection. Replace partially exposed or damaged cables immediately to avoid arc flash or short circuits.


NOTICE

Violations of installation or design requirements in this manual void the warranty and may cause system failure.

5.5.3 UNPACKING VERIFICATION

Before unpacking, carefully verify that the product information on the order matches the details on the packaging nameplate, and ensure the product packaging remains intact. Should any discrepancies be found, promptly contact the supplier. After unboxing, inspect these components:

Accessories List

Item	Name	Unit	Remarks
1	Battery Module	Set	
2	Battery Module Installation Handle	Piece	
3	Disassembly Tool Kit	Set	
4	User Manual	Copy	
5	Battery Connection Harness	Set	
6	Accessories	Piece	
7	Energy Router	Set	
8	Base Frame	Set	
9	Air Duct	Set	Optional
10	Air Conditioner	Set	Optional

Note: Accessories include installation handles and disassembly tools.

5.5.4 BASIC INSTALLATION REQUIREMENTS

Risen Stack1 is rated IP55 and designed for installation in dry, dust-free environments. Compliant with EMC standards, the integrated energy storage cabinet meets all environmental installation requirements. Select the installation site according to the following specifications:

- The installation site must be well-ventilated, protected from rain and direct sunlight.
- The installation surface must be dry and level.
- The ground must be stable and capable of fully supporting the weight of the energy storage cabinet.
- Ambient temperature range: -10°C to 40°C; Relative humidity range: 4% to 100%.
- Maintain sufficient clearance around the cabinet (front, rear, sides, top) to ensure proper ventilation, heat dissipation, maintenance access, and safety evacuation.
- No flammable gases or combustible materials in the vicinity.
- The installation environment must be kept clean.

5.5.5 MECHANICAL INSTALLATION PROCEDURE

Step 1: After unboxing, users will find 1 battery module unit and 4 installation handles.

Secure all 4 handles onto the designated mounting slots of the battery module to facilitate installation.

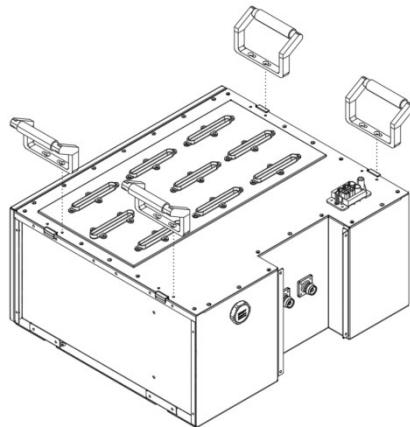


Figure 5-5-5-1: Installation Handle Attachment

- Note: Remove handles after module stacking for reuse with subsequent modules.
- Note: Handles may also be used for lifting operations.

Step 2: Stack battery modules sequentially onto the base frame.

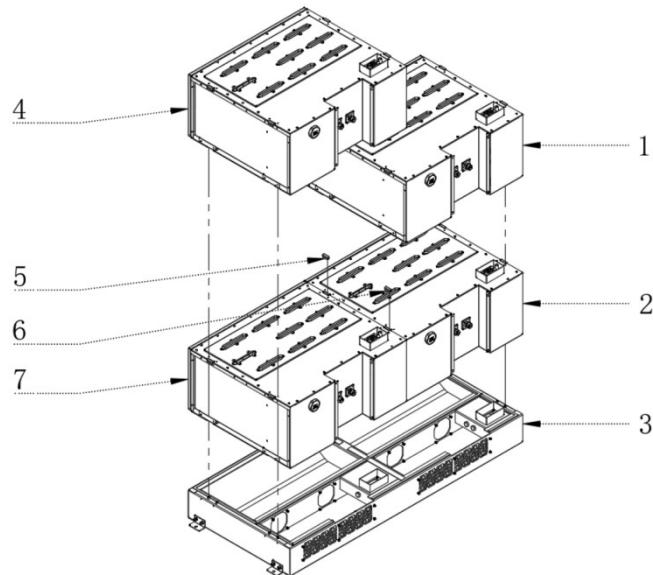


Figure 5-5-5-2: Module Stacking Configuration

No.	Component	Remarks
1	Battery Module	
2	Battery Module	
3	Base Frame	
4	Battery Module	
5	Battery Module	
6	Battery Module	
7	Battery Module	

Step 3: After completing the stack, secure adjacent modules using fixing plates at both top

and bottom interfaces. As shown in the figures:

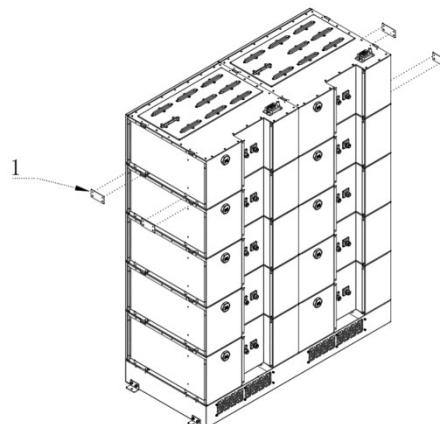


Figure 5-5-5-3: Battery Module Fixing Plate Installation

No.	Component	Remarks
1	Side Plate	

Step 4: Install air duct or AC unit atop the topmost battery module.

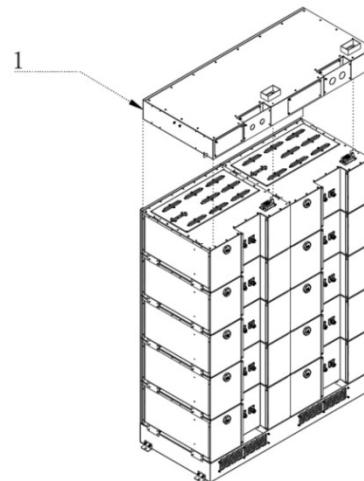


Figure 5-5-5-4: Air Duct/AC Unit Mounting Position

No.	Component	Remarks
1	Air Duct	

Step 5: Securely install the energy router atop the air duct or AC unit.

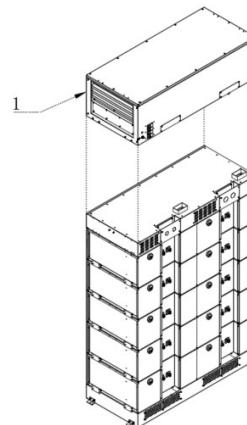


Figure 5-5-5-5: Energy Router Position

No.	Component	Remarks
1	Energy Router	

Step 6: Attach decorative panels on both system sides.

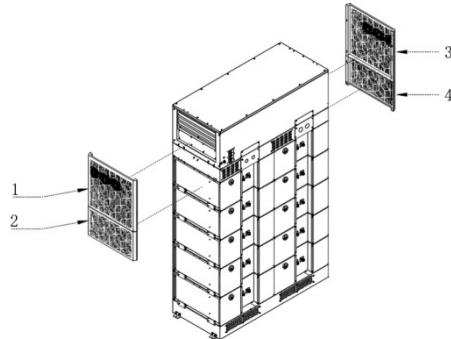
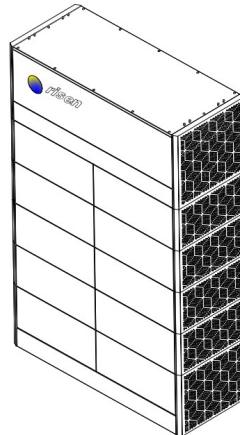


Figure 5-5-5-6: Decorative Panel Arrangement

No.	Component	Remarks
1/2/3/4	Decorative Panel	

Step 7: Risen Stack1 Assembly Completion.



Fully Assembled Risen Stack1

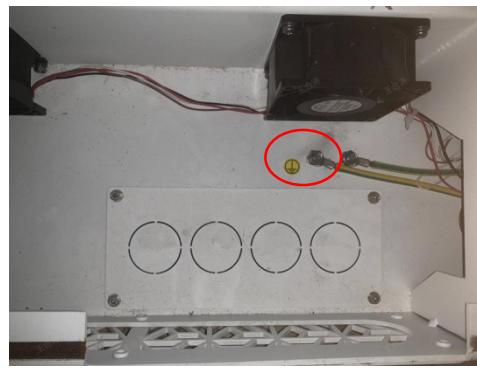
Note: If the quantity of PACK is an odd number, an empty PACK (which has the same appearance as a normal PACK) needs to be placed. The installation and wiring methods are the same.

5.5.6 CABLE CONNECTIONS

1. After the base is fixed, the only PE connection required is from the distribution box to the PE terminal on the base. The PE cables for each module inside the equipment are already connected, so there is no need for additional wiring. It is recommended to use 8AWG cables for the PE cables and press-fit 10-6 O-type terminals. The terminals should be fixed with M6 bolts, and the recommended torque is 3.5N.m.

Note: Connect the PE cables of the base first, then stack the energy blocks.

See the figure below for details:



2. Fabricate the power lines for the AC side

- Unscrew the protective plug of the accessory connector
- Strip the wire by 8 to 10 mm
- Pass the cable through the protective cap and insert it into the copper tube of the connector
- Press the cable tightly
- Tighten the protective cap

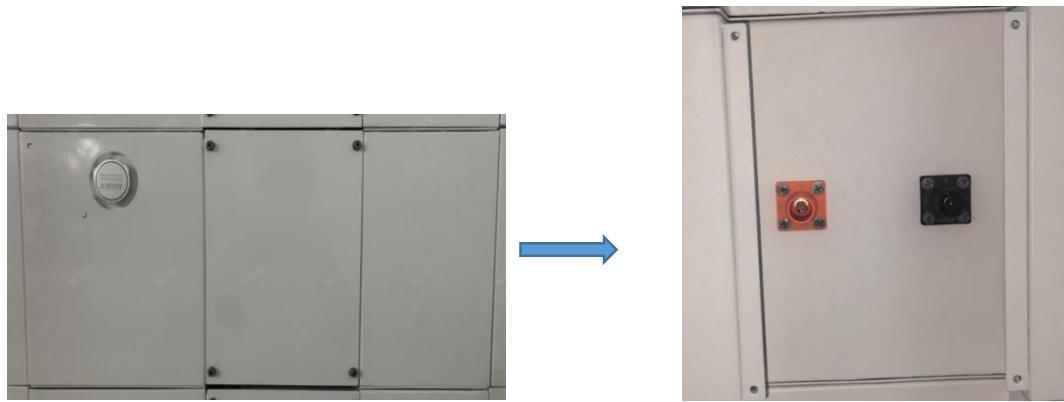
Please refer to the following diagram:



3. Series Cable Installation in Energy Blocks

After stacking all Energy Blocks (PACK) correctly on the base:

Step 1: Open the cover of the cable trench. See below for details:



Step 2: Daisy-chain Energy Blocks sequentially using quick-connect cables. See below for details:

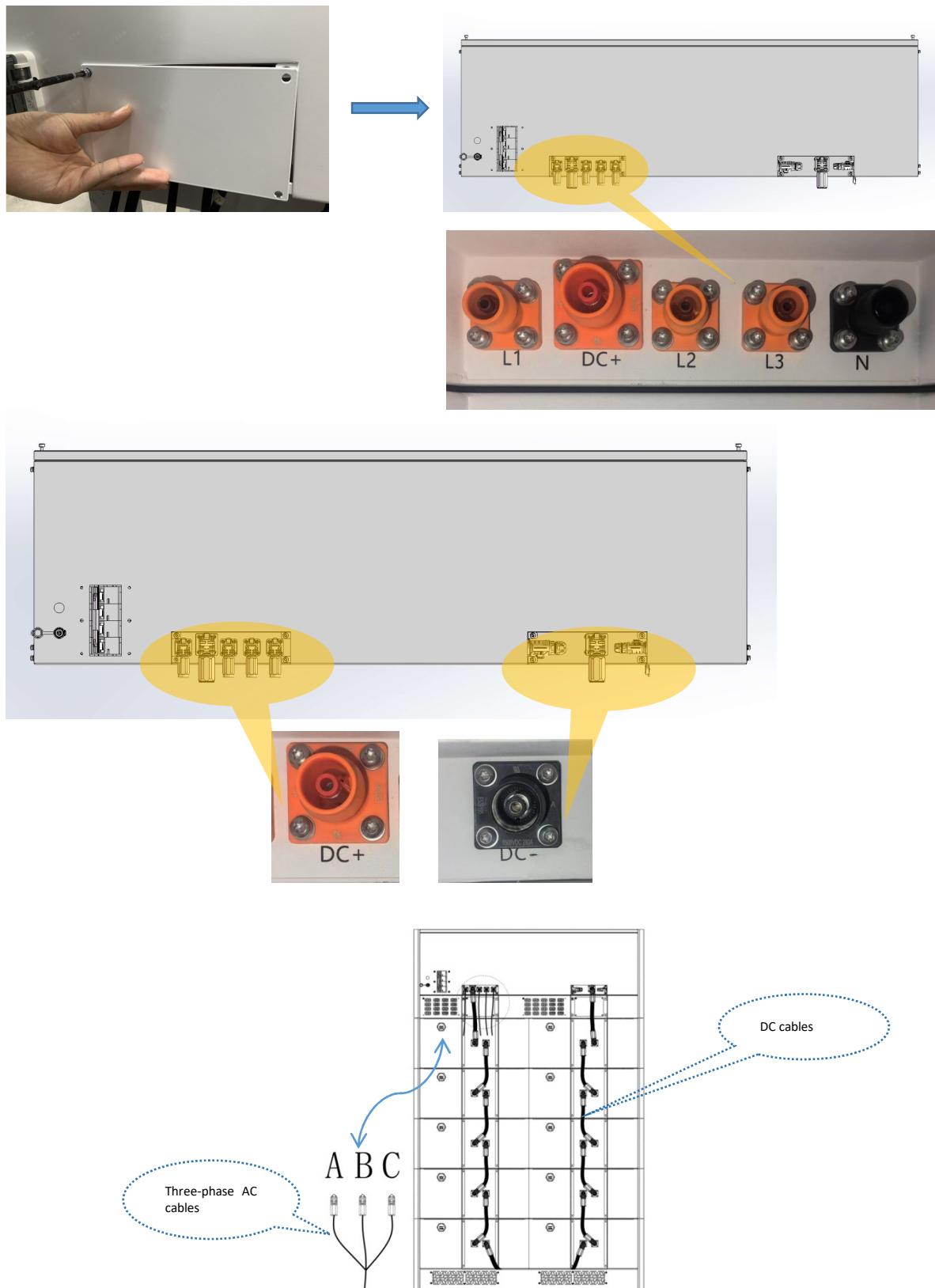


Step 3: Complete the series connection across all Energy Blocks. See below for details:

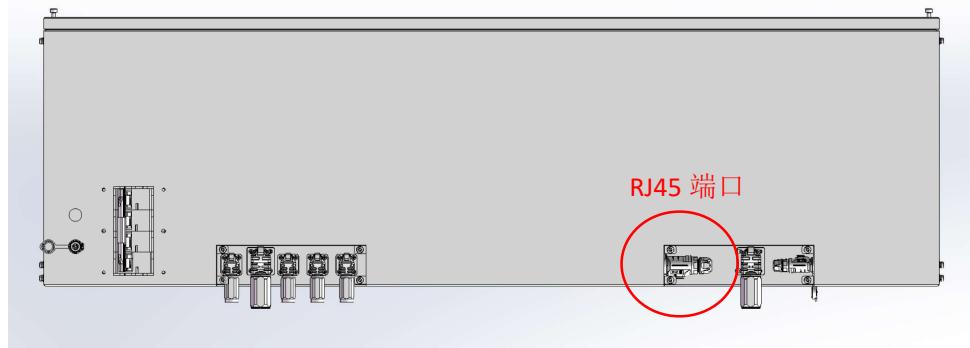


4. Remove the cover of the AC cable trench of the energy router, and connect the external AC power line, corresponding to L1, L2, L3, and N respectively.

Use the DC cables provided in the accessories to connect the DC lines, corresponding to DC+ and DC-. Please refer to the following picture for details:



5. Use an Ethernet cable, connect it to the RJ45 port of the energy router connect to DRED.



6. After the wiring is completed, use the removed M4 bolts to tighten all the cable trench covers. The recommended torque is 2N.m. Please refer to the following picture for details.



7. After installation is complete, refer to Chapter 3 of the product manual for the power-on test.

5.6 System Inspection

Perform routine inspections as per the system manual and document results using the table below:

Item	Method	Yes-✓/No-✗/N/A-○	Remarks
Cooling system integrity	Visual inspection		
Airflow blockage in cooling ducts	Visual inspection		
Deformation of Risen Stack1	Visual inspection		
Corrosion/damage to ESS unit	Visual inspection		
Loose/damaged AC cable harnesses	Visual inspection		

Loose/damaged DC cable harnesses	Visual inspection		
Cable-structural interference	Visual inspection		
Data completeness (aggregate)	BMS monitoring		
Data completeness (cell voltage)	BMS monitoring		
Data completeness (cell temperature)	BMS monitoring		
Abnormal alarms	BMS monitoring		

Notes: Immediately report anomalies and escalate to authorized personnel for resolution.

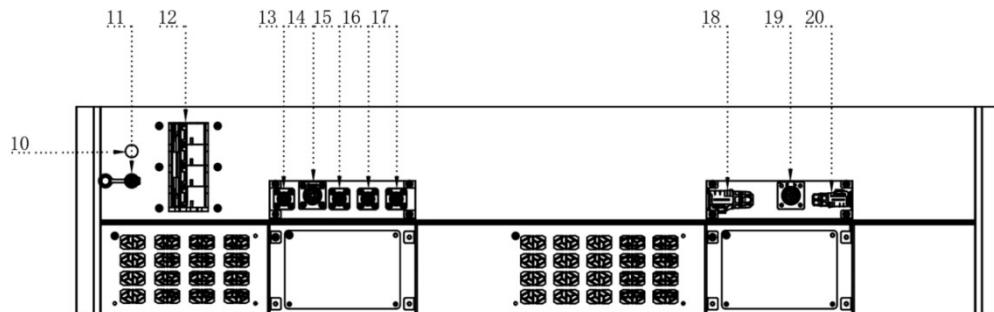
Inspection frequency: Weekly during normal operation. Quarterly during long-term storage.

6 Note

6.1 RCD Suggestion

At the point of connection, it is recommended to use an AC400V/4P/300mA leakage protection device, Type B. The rated current should be selected as 1.4 times the marked rated current on the nameplate.

6.2 Grid connection instructions



The inverter supports the DRM0 response mode and has 18 RJ45 ports for connecting demand response enabling devices.

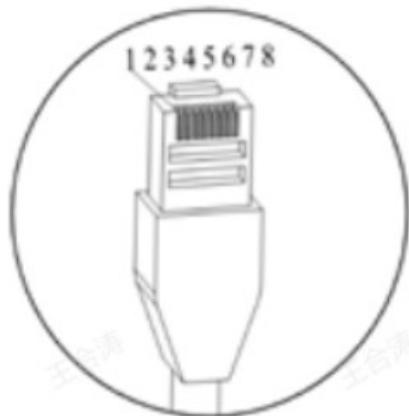
This application meets the requirements of the local Australian grid code (AS/NZS 4777.2), which, among specific requirements for the connection, call for compatibility with Demand Response Enabling Devices (DRED). The DRED is under the control of a local network operator and allows to put the inverter in one of the Demand Response Modes (DRMs) defined by the standard:

DRM0 Operate the disconnection device.

It is mandatory to respond to DRM0, which allows the network manager to remotely decouple the installation from the distribution network.

The RJ45 socket pin assignments for DRED:

DRED



PIN	Signal Name	Cable Color
1	N/A	Orange-white
2	N/A	Orange
3	N/A	Green-white
4	N/A	Blue
5	N/A	Blue-white
6	Com/DRM0	Green
7	N/A	Brown-white
8	N/A	Brown

This inverter has not been tested according to the requirements of AS/NZS 4777.2:2020 for the combination of multiple inverters and/or multi-phase inverters. Therefore, it should not be used in a combined manner; if a combined use is required, an external device should be used in accordance with the requirements of AS/NZS 4777.1.

6.3 Power Activation

Please refer to the product manual for detailed instructions.

7 Installation and Maintenance Personnel Requirements

According to this user manual, installation and maintenance personnel must be authorized by RISEN before performing installation and maintenance according to the maintenance documentation. Authorization of specific maintenance personnel will be discussed during the project implementation phase and RISEN will provide training and guidance accordingly.

8 Contact Information

For technical inquiries regarding our products, please contact us. The following data is required to provide necessary support:

- Product Number:
- Serial Number:
- Fault Information:
- Detailed Description of the Issue:

China

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