



Installation Manual

SH-4.5KWH (LFP) battery pack system



The information included in this manual is accurate at the time of publication. However, this manual is subject to change without prior notice. In addition, the illustrations in this manual are meant only to help explain system configuration concepts and installation instructions.

Please note the image shown is for illustration purposes only.

 **WARNING**

After installation, the installer must explain the User Guide to the end-user.

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1. Improper installation or commissioning,
2. Unauthorized modifications, alterations or repair attempts,
3. Inappropriate use or operation
4. Insufficient ventilation of the device; Non-compliance with relevant safety standards or regulations
5. Flood, lightning, overvoltage, storm and fire (acts of nature). We reserve the right to make alterations that will improve device function.

Preface

Published by **SYL (Ningbo) Battery Co., Ltd.**

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Read this installation manual entirely prior to installation work

Thank you for purchasing our highly reliable and efficient battery system. This lithium ion battery pack. can be installed indoor or outdoor and carry a rating of IP65.

If you are reading the electronic version of the manual, please note that you can click the content to find information you want quickly. All underlined characters are clickable.

Before operating this device, please read this manual entirely.

If you have any difficulty during installation or operation, please refer to this manual, contact your installer or send service request by email to service@sylbattery.com

How to use this manual?

Please read the safety instructions in this manual first.

Installation and maintenance work is assumed to be carried out by personal which is familiar with AC and DC voltage system. It is also assumed that personal is familiar with related NEC code requirements for PV and energy storages system. Please also pay attention to NEC code in regards to electrical wiring, grounding, as well as interconnecting it to the utility grid. Please pay specific attention and observe general safety rules while working with electrical equipment.

This installation manual is intended for qualified electricians only.

1. Safety

1.1 Important Safety Information

For safety reasons, installers are responsible for familiarizing themselves with the contents of this document and all warnings before performing installation.

Before Installation Check for damage on the device and package. If you are in doubt, please contact distributor before installing the device.

Before connecting battery modules to the designated terminal of the inverter, please ensure voltages are within the allowable range as stated on the specifications sheet. Failure to observe these specifications could void your warranty.

1.1.1 General safety precautions

Over-voltages or wrong wiring can damage the battery pack and cause deflagration, which can be extremely dangerous.

All types of breakdown of the product may lead to a leakage of electrolyte or flammable gas.

Avoid installing the battery pack where flammable materials are stored. Do not install in places where explosive gas or chemicals are present.

During installation of the battery, the utility grid, solar input must be disconnected from the Battery Pack wiring. Wiring must be carried out by a qualified personnel.

High voltage is present in the device.

The electronics inside the Battery Pack are vulnerable to electrostatic discharge. Be sure to be grounded before handling the battery pack.

Read the label with Warning Symbols and Precautions, which is visibly under to the Battery Cover (see Section 1.1.6)

1.1.2 Battery handling guide

- Do not expose battery to open flame.
- Do not place the product nearby highly flammable materials. It may lead to fire or explosion in case of accident.
- Do not expose or place near water sources like downspouts or sprinklers.
- Do not store this product in a place exposed to direct sunlight.
- A ventilated area is strongly recommended for handling the product.
- Store at cool and dry place. (Do not store in greenhouses and storage areas for hay, straw, chaff, animal feed, fertilizers, vegetables or fruit products.)
- Store the product on a flat surface.
- Store the product out of reach of children and animals.
- Store the product where it should be minimal dust and dirt in the area.
- Do not commission the device until the whole system complies with the application-specific NEC code and local utility rules and safety regulations.
- The device manufacturer or installer is responsible for compliance with the limit values as prescribed in the national regulations.
- Only persons who are trained and qualified to install and operation this device are allowed to work on the device.
- Do not disconnect, disassemble or repair by unqualified personnel. Services must be made by qualified personnel only.

- Do not damage the unit in such ways as dropping, deforming, impacting, cutting or penetrating with a sharp object. It may cause a leakage of electrolyte or fire.
- Do not touch if liquid is spilled on the product. There is a risk of electric shock. Handle the battery wearing the insulated gloves.
- Do not step on the product or the product package. The product may be damaged.
- Do not place any foreign objects on the top of the Battery Pack and on the cooling fin.
- Do not put the battery pack upside down on the ground.
- Do not connect the power cables at terminal block opposite direction.
- Do not charge or discharge damaged battery.
- If the battery pack is installed in the garage then ensure the product is above the height of the vehicle bumper and/or door.
- Only use the product with SYL-authorized inverter.

1.1.3 Maintenance and Modification

Only qualified personnel are allowed to repair to the battery. To ensure safety for installers and end user, only the original spare parts available from your supplier should be used.

1.1.4 Functional Safety Parameters

Unauthorised changes of functional safety parameters may cause injury or accidents to user and damage battery pack. The warranty and product related certifications shall be voided.

1.1.5 Response to emergency

situations

The battery pack comprises multiple batteries that are designed to prevent hazards resulting from failures. However, we cannot guarantee their absolute safety.

1. Leaking Batteries

If the battery pack leaks electrolyte, avoid contact with the leaking liquid or gas.

If one is exposed to the leaked substance, immediately perform the actions described below.

Inhalation: Evacuate the contaminated area, and seek medical attention.

Contact with eyes: Rinse eyes with flowing water for 15 minutes, and seek medical attention.

Contact with skin: Wash the affected area thoroughly with soap and water, and seek medical attention.

Ingestion: Induce vomiting, and seek medical attention.

2. Fire



In case of fires, it is recommended to have an ABC or carbon dioxide extinguisher.

WARNING

The battery pack may catch fire when heated above 150°C.

If a fire breaks out in the place where the battery pack is installed, perform the following countermeasures:

1. Extinguish the fire before the battery pack catches fire.
2. If it is nearly impossible to extinguish the fire but you have time, move the battery pack to a safe area before it catches fire.
3. If the battery pack has caught fire, do not try to extinguish the fire on the battery pack, but evacuate people immediately.

 WARNING
When the battery pack is burning, it produces poisonous gases.

4. Wet battery

If the battery pack is wet or submerged in water, do not let people access it.

Contact SYL or your distributor for technical assistance.

1.2 Safety Symbols

The following symbols are adopted in this documentation:

 DANGER	<p>Death or severe personal injury will occur. Electric shock! Do not open the device! Residual High voltage may still be circulating inside the device even after it has been switched off</p>
 WARNING	<p>Death or severe personal injury may occur. High leakage current! Make absolutely sure you have established grounding system before connecting the device to the supply circuit! Health risk! Health risk for persons with cardiac pacemakers, metallic implants and hearing aids in the immediate vicinity of electrical equipment!</p>
 CAUTION	<p>Personal injury or material damage may occur. Risk from improper handling! Personal injury mechanically by crushing, shearing, cutting or striking.</p>

 HOT SURFACE	<p>Surfaces of the housing can be hot! Risk of injury! Risk of burns. Equipment housing surface and heat sink surface may exceed 70°C.</p>
	<p>Do not place nor install near flammable or explosive materials.</p>
	<p>Install the product out of reach of children.</p>
	<p>Read the instruction manual entirely before starting installation and operation.</p>
	<p>Heavy weight may cause serious injury to the back.</p>
	<p>Observe a resting time of fifteen (15) minute.</p>
	<p>Do not dispose of the product with household wastes.</p>
	<p>Recyclable.</p>
	<p>Disconnect the equipment before carrying out maintenance or repair.</p>
	<p>Observe precautions for handling electrostatic discharge sensitive devices.</p>
	<p>CE MARK</p>
	<p>TUV MARK</p>
	<p>Two adult male operations.</p>

1.3 Qualified personnel

This guide and the tasks and procedures described herein are intended for use by skilled workers only. A skilled worker is defined as a trained and qualified electrician or installer who has all of the following skills and experience:

- Knowledge of the functional principles and operation of on-grid and off-grid (backup) systems.
- Knowledge of the dangers and risks associated with installing and using electrical devices and acceptable mitigation methods.
- Knowledge of the installation of electrical devices
- Knowledge of and adherence to this guide and all safety precautions and best practices.

1.4 Exclusion of Liability

SYL (Ningbo) Battery Co., Ltd. will not be liable for any direct, indirect or consequential damages, losses or costs including without restriction any economic losses of any kind, any loss or damage to property, any personal injury, any damage or injury arising from or as a result of misuse or abuse, or the incorrect installation, integration or operation of the product. We disclaim any liability for direct or indirect damages due to:

1. Improper installation or commissioning,
2. Unauthorized modifications, alterations or repair attempts,
3. Inappropriate use or operation,
4. Insufficient ventilation of the device,
5. Non-compliance with relevant safety standards or regulations,
6. Flood, lightning, overvoltage, storm and fire (acts of nature).

We do not assume any liability for an incorrect country code setting.

We reserve the right to make alterations that will improve device function.

2. Product Introduction

2.1 Features

The SH-4.5KWH (LFP) battery pack has the following features:

Photovoltaic system: This battery pack is designed for photovoltaic system compatibility.

Battery management system (BMS): The battery pack's built-in BMS monitors its operation and prevents the battery from operating outside design limitations. See Troubleshooting on page 29.

Expandability: The battery capacity can be increased by adding expansion battery packs. Up to five expansion battery packs can be added. An expansion battery pack can be purchased either with the main battery pack or as a separate unit.



Figure 2.1 Battery System parts

2.2 Technical Specification

2.2.1 Component Dimension

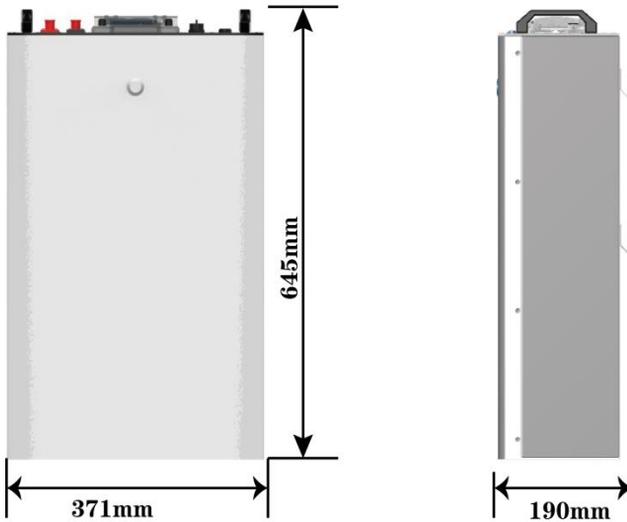


Figure 2.1 battery bank (SH-4.5KWH (LFP) dimension)

2.2.2 Battery Bank Specification

Table 2.1 Battery bank specification

Lithium iron phosphate energy storage battery module	
Model	SH-4.5KWH(LFP)
Nominal Voltage /Nominal Capacity	51.2Vdc/90AH
Operation Voltage Range	46.4Vdc-57.6Vdc
Nominal Current	30A continuation (0.33C)
Peak value current of discharge	45A (0.5C) 2min
The temperature of charge	0 ~ 45°C
The temperature of discharge	-20 ~ 55°C
expand capacity	Up to 5 modules parallel operation
Communication Interface	RS485/CAN
Protection Class	IP65
Size (Width × Height × Depth mm)	371*645*190mm
Weight	47KG
Warranty	5000 times Cycle life or 8 years Warranty

3. Installation

3.1 Unboxing the package

1. Cut the packing tape and open the carton.
2. Pull out other items. Take them out and check if any item is missing.
See Package items on section 3.2
3. Remove the wall bracket guide pad & cushioning pad.
 1. Remove the side pad.
 2. Remove the side pad.
 3. Pull out the battery pack using handles and stand it up (Lift handles are sold separately for this product.)

 **WARNING**

According to regional regulations, several people may be required for moving equipment.

3.2 Battery Module Packing List

This product has one package: battery package .Following items inside of package:

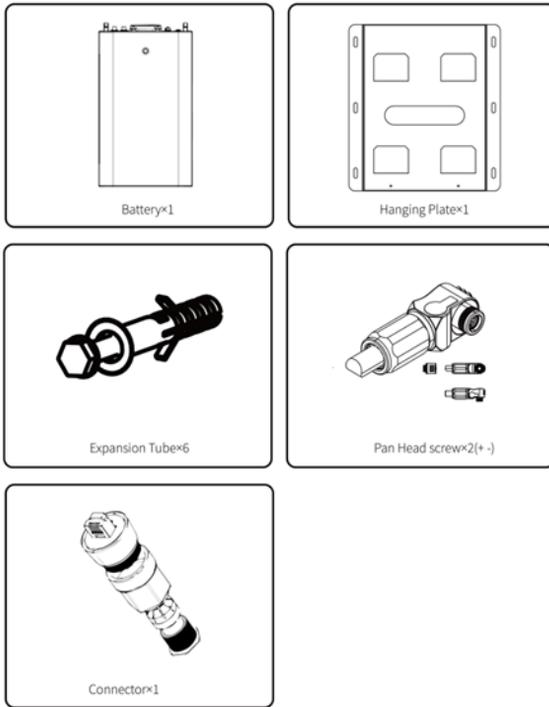


Figure 3.1 Battery Module Packing List

- Prior to installation, please inspect packages for transport damage.
- If damage discovered, document the findings and report damage immediately to your distributor or goods forwarder.
- If it becomes necessary to turn the unit, please use the original packages in which they were delivered.

3.3 Selecting Installation Location

Required:

- There must be no highly flammable or explosive materials nearby.
- The ambient temperature should be within the range of 14 ~ 113°F (-10 ~ 45°C).
- Battery pack must be installed on walls that are upright and can

support battery weight.

- Product shall be installed in the order of: indoor (ex. basement or garage); or, outdoor but under the roof shades facing north; or, other sides of the house that minimizes direct sunlight.

Recommended:

- The building should be designed to withstand earthquakes.
- The waterproof and properly ventilated area is recommended. (IP55)
- Install the product on a flat wall.
- Install this product out of reach of children and animals.

 **WARNING**

If the ambient temperature is outside the operating range, the battery pack stops operating to protect itself. The optimal temperature range for the battery pack to operate is from 59 to 86°F (15 to 30°C). Frequent exposure to harsh temperatures may deteriorate the performance and life of the battery pack.

3.4 Mounting clearance

- Observe the minimum clearance distance between in battery and nearby object to ensure proper heat dissipation.
- Install battery modules on wall or wood framing that can support the weight of the units.
- Do not install battery modules in direct sunlight. Battery pack power output derate occurs above 113°F (45 °C).
- Do not install battery modules on flammable construction materials or in area close to flammable or explosive materials.

Infront: 300mm
Two sides: 200mm

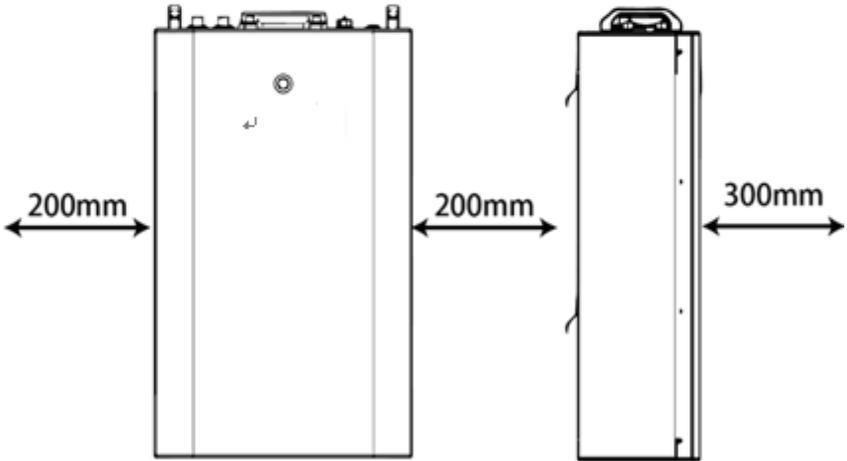


Figure 3.2 System clearance reference

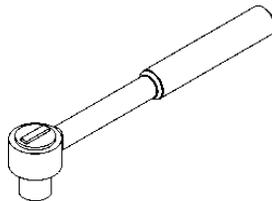
3.5 Tools & safety gears required

Tools

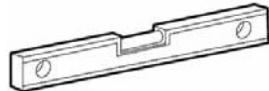
The following tools are required to install the battery pack:



Precision screwdriver



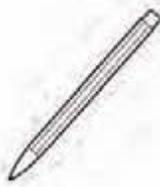
M6 torque wrench



Inclinometer



Drill



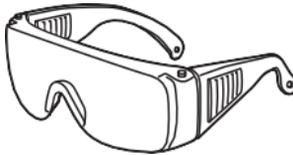
Pencil or Marker

Safety gears for personal protection

It is recommended to wear the following safety gears when handling the battery pack.



Insulated gloves



Safety goggles



Safety shoes

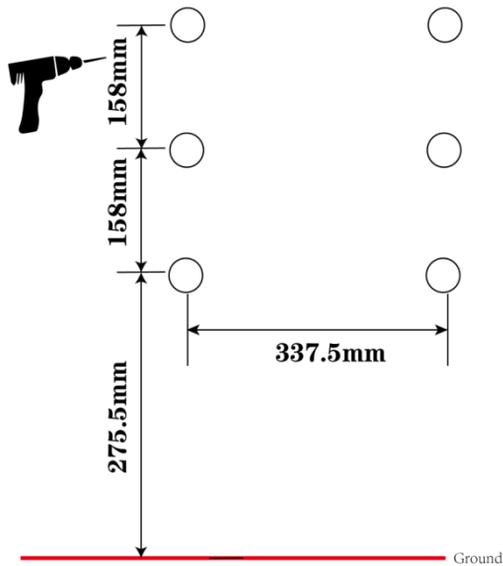
NOTE

SH-4.5KWH(LFP) battery is heavy and challenging to lift. Lift handles are recommended.

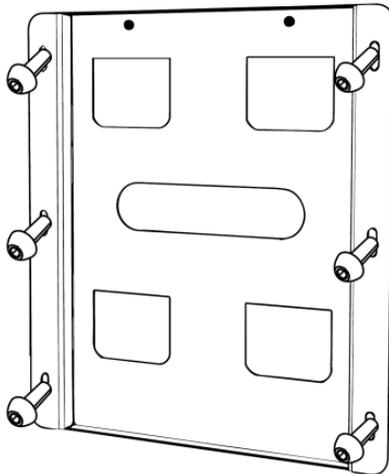
3.6 Mounting Battery bank

When installing the battery pack on a wall, make sure that the wall is capable of supporting the weight of the battery pack.

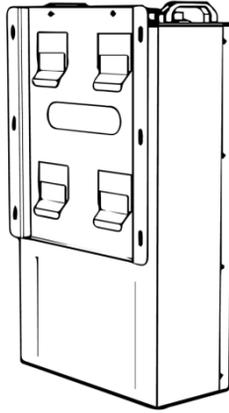
To mount the battery pack on a wall, take the following steps :



1. Place the mounting bracket against the wall and mark the hole.



2. Use $\Phi 10$ drill template to drill holes on marketed position.
3. Fix wall bracket onto the wall.
4. Ensure bracket is attached firmly.
5. Align with wall bracket, install battery vertically with a maximum incline of ± 5 degree.



6. Slowly lower battery, ensure the battery hang on the hook of wall bracket.

4. Cable Connection



• Only electricians with proper license can carry out electrical work.

WARNING

4.1 The Overview of Electrical Connection

SH-4.5KWH(LFP) battery pack system Connection Diagram:

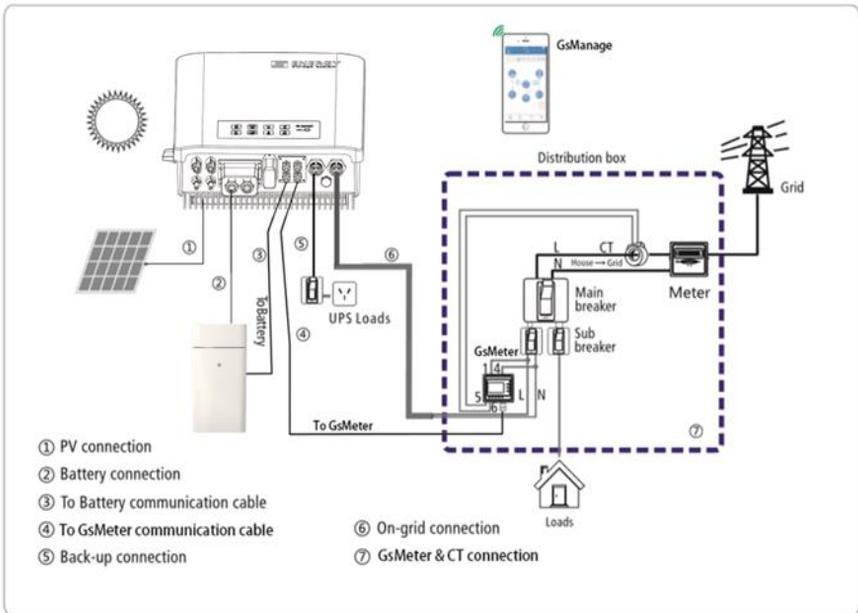
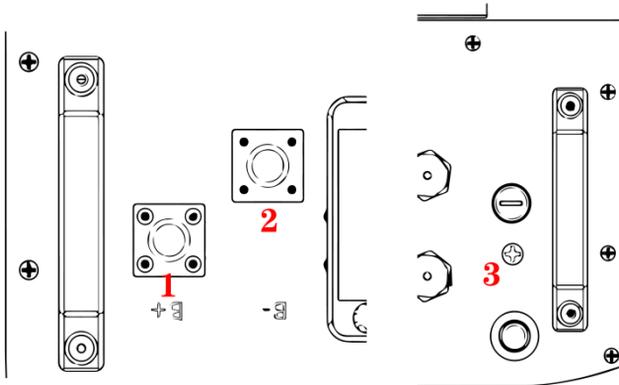


Figure 4.1 the Overview of Electrical Connection

4.2 Battery Connection

	NOTE
<ul style="list-style-type: none">● Suggestion: if the battery is to be installed indoor, for details please refer to battery manufacture's user manual.● Suggestion: Batteries must be installed with a distance to each other, details please refer to battery manufacture's user manual.● As for the number of cells used, it will be decided by customer's choice, the choice must comply with the followed requirement: the rated voltage is 48V.	

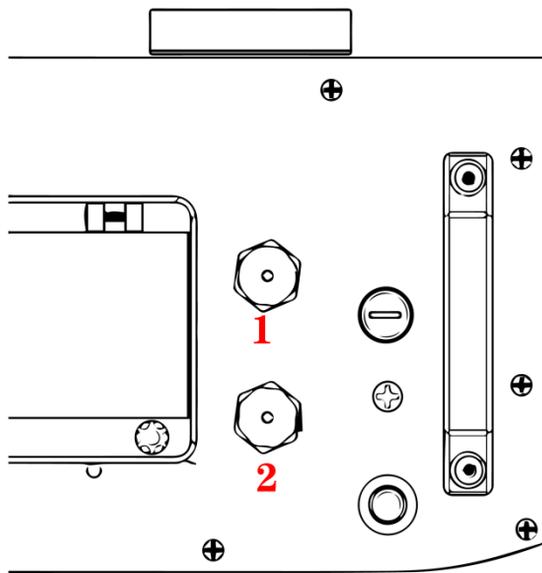
Please follow below steps to implement battery connection:



1. For Power Cable specifications

- a) Connect the ground wire to terminal 3.
- b) Connect the negative line of the power cable to terminal 2.
- c) Connect the positive line of the power cable to terminal 1.

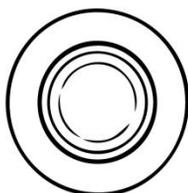
(If the voltage does not exceed the human safety voltage, there will be no need for grounding wire).



2. For Communication Cable specifications

- a) Connect the PCS to terminal 1.
- b) Connect the pack to the terminal 2.

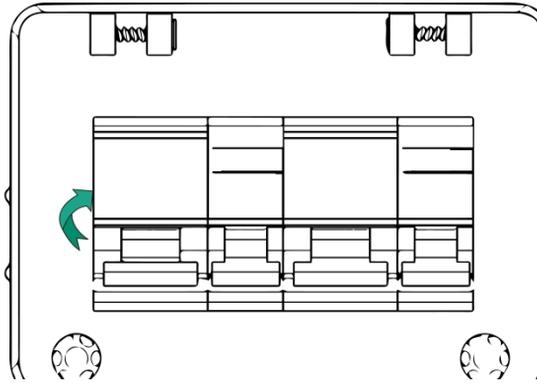
•Before connection, please turn on the cover first what you need.



3. Auxiliary power ON/OFF switch (for shipping and storage)

Turn on the auxiliary power switch.

•Must turn off to reduce self-discharge of battery during shipping and storage.



4. Connecting the battery pack to the inverter.

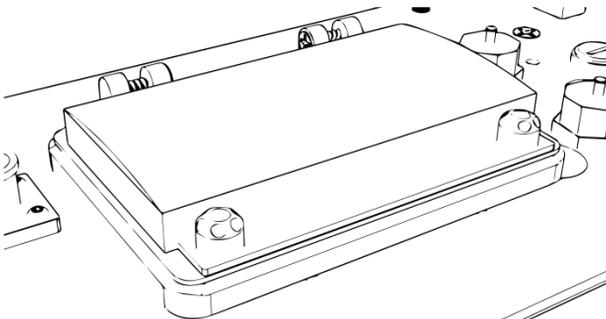
Refer to the installation instructions for the inverter to connect the power cable and communication cable to the inverter.

Then, push the circuit breaker switch up so that it is in the ON position.



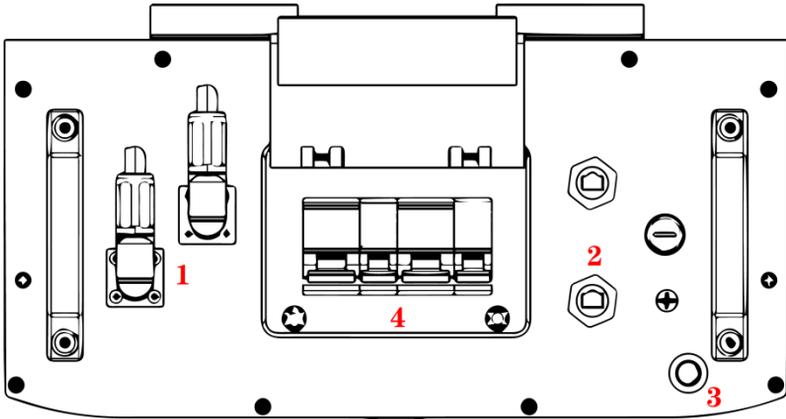
CAUTION

Please must do the switch on & off operation at the middle side of SHT31 and Ex9BP combined. It's forbidden to do the operation at the left or right edge side of combined body. Any wrong operation may cause the products break off.



5. Close the wiring box cover.

4.2.1 Auxiliary power switch and spring terminal blocks



- 1. Power terminal block
- 2. Communication terminal block
- 3. Power switch
- 4. Circuit breaker

5. Operation Test

5.1 Starting the System

After the battery energy storage system is normally connected with the wiring harness of hybrid inverter, close the main isolation circuit breaker; Then, press the "on/off" button, the system enters the startup state; The power indicator lights up and the system starts up normally.

5.2 Turning off the System

When the system is in the starting state, press the "on/off" button, and the system enters the shutdown process. After the power indicator light is off, disconnect the isolation circuit breaker and the power off operation is completed.

6. Troubleshooting

6.1 Troubleshooting

Check the indicators on the front to determine the state of the battery pack. A warning state is triggered when a condition, such as with voltage or temperature, is beyond design limitations. The battery pack's BMS periodically reports its operating state to the inverter.

When the battery pack falls outside prescribed limits, it enters a warning state. When a warning is reported, the inverter immediately stops operation.

Use the monitoring software on the inverter to identify what caused the warning. The possible warning messages are as follows:

- Battery Over Voltage
- Battery Under Voltage
- Battery Over Temperature
- Battery Under Temperature
- Battery Discharge Over Current
- Battery Charge Over Current
- BMS Internal Communication
- Battery Cell Voltage Imbalance

The abnormal state is cleared when the battery pack recovers normal operation. If battery pack is not working correctly and the issue persists, contact a Qualified personnel, Installer or SYL regional contact point.

NOTE

For a serious warning, if no proper corrective actions are taken by the inverter, the battery pack's circuit breaker automatically trips to protect itself.

 **WARNING**

If the battery pack or the inverter indicates FAULT or fails to operate, contact SYL or your distributor immediately.

6.1.1 Post-Installation Check List

	YES	NO
1. Visual check if the wiring matches with the installation manual.	<input type="radio"/>	<input type="radio"/>
2. Both the Auxilliary Power Switch and Circuit Breaker are ON.	<input type="radio"/>	<input type="radio"/>
3. The battery "ON" LED is ON.	<input type="radio"/>	<input type="radio"/>
4. The inverter power is ON.	<input type="radio"/>	<input type="radio"/>
5. The inverter has the latest firmware.	<input type="radio"/>	<input type="radio"/>
6. The inverter recognizes the battery.	<input type="radio"/>	<input type="radio"/>
7. The battery can operate after installation is correctly done. 7-1.The AC grid is connected. 7-2.The Meter is installed. 7-3.The government approval is complete.	<input type="radio"/>	<input type="radio"/>
8. If any of #7 is checked as "NO" or the inverter needs to be turned off, turn off the circuit breaker first, then turn off the aux power switch.	<input type="radio"/>	<input type="radio"/>

6.1.2 Troubleshooting Guideline

If the battery LED is OFF

1. Turn off the Circuit Breaker first, then turn off the Aux Power Switch.
2. Turn off the inverter. Verify there is no power at the battery connection.
3. Unplug all the wires and reconnect. Re-check the wiring on the battery is done correctly.
4. Turn on the Aux Power Switch first. Then, turn on the Circuit Breaker.
5. Turn on the inverter.
6. If the LED is still off, turn off the Circuit Breaker first, then turn off the

Aux Power Switch.

7. Contact SYL regional contact point.

If the battery LED is ON, but the battery is not charging or discharging

1. Update both the inverter and battery firmware version. Refer to the inverter's troubleshooting guide for instruction.
2. Check the inverter's setting for battery.
3. Refer to the inverter's troubleshooting guide for the battery set-up instruction.
4. If the battery is recognized, inverter set up is correct.
5. If the issue persists,
6. 6-1. Turn off the Circuit Breaker first, then turn off the Aux Power Switch.
6-2. Turn off the inverter. Verify there is no power at the battery connection.
4-3. Unplug all the wires and reconnect. Re-check the wiring on the battery is done correctly. Refer to the installation manual (3.2 Cable connection).
4-4-4. Turn on the Aux Power Switch first. Then, turn on the Circuit Breaker.
4-4-5. Turn on the inverter.
7. If the battery set up is correctly done, but the battery still does not operate, turn off the Circuit Breaker first, then turn off the Aux Power Switch.
8. Contact SYL regional contact point.

If the battery FAULT LED is ON

1. Check if the inverter recognizes the battery. Refer to the inverter's troubleshooting guide on the battery set-up instruction.
2. If the inverter is connected to the internet, collect the log file from the inverter company.
 - 2-1. Send the log file to SYL regional contact point.
 - 2-2. Turn off the Circuit Breaker first, then turn off the Aux Power Switch.
 - 2-3. Wait further instruction from SYL

3. If the inverter is not connected to the internet, check the inverter SYL to read battery's fault ID. Refer to the inverter's troubleshooting guide for instruction.

3-1. Send the fault ID to SYL regional contact point.

3-2. Turn off the Circuit Breaker first, then turn off the Aux Power Switch.

3-3. Wait further instruction from SYL

6.3 Battery Pack

Check the indicators on the front to determine in what state the main battery pack is.

Status	Charge/Discharge	
Orange → Green	Off	Successfully initialized
Orange → Orange	Off	Initialization failed
Green	Green	Discharging in normal state
Green	Red	Charging in normal state
Green	Off	Waiting in normal state
Flashing Green/Orange	Green	Discharging in warning state
Flashing Green/Orange	Red	Charging in warning state
Flashing Green/Orange	Off	Waiting in warning state
Off	Off	Circuit breaker tripped

1) This should occur in 7 seconds.

2) Contact SYL or your distributor in this case.

A warning state is triggered when a condition, such as voltage or temperature, is beyond its design limitations.

The main pack's BMS periodically reports its operational state to the inverter.

There are two abnormal states:

Warning: When the main pack is likely to become faulty, it goes into a warning state. When a warning is reported, the inverter shows the warning message on its display but takes no action about it.

Fault: When the main pack falls outside prescribed limits, it goes into a fault state. When a fault is reported, the inverter immediately stops its operation and shows the fault message on the display.

The possible warning or fault messages are as follows:

- Battery Over Voltage
- Battery Under Voltage
- Battery Over Temperature
- Battery Under Temperature
- Battery Discharge Over Current
- Battery Charge Over Current
- BMS Internal Communication
- Battery Cell Voltage Imbalance

An abnormal state is cleared when the main pack recovers its normal condition.

NOTE

For a serious fault, if no proper corrective actions are taken by the inverter, the main pack's circuit breaker automatically trips to protect itself. For example, if the Status indicator stays orange for more than 5 minutes, the circuit breaker trips. Use the monitoring software on the inverter to identify what caused the fault.

7. Uninstallation & Return

7.1 Return/replacement instructions

1. Switch OFF the Inverter before starting the uninstallation of the battery pack.
2. Press the two buttons and pull the two latches (marked position) on the rear.
3. Open the wiring box cover (about 2~10 degrees), and pull to remove it.
4. Switch off the circuit breaker.

If you have Auxiliary Power ON/OFF switch, turn off Auxiliary Power switch.



WARNING

Do not turn off the Auxiliary Switch while the battery is in operation.

5. Loosen the screw (marked position), and remove the transparent protection cover.
6. Check for voltage at power cable terminal.
7. Disconnect the communication cable from the communication port.
8. Disconnect the power cable from the terminal block. Disconnect the positive terminal (+) ① first, and next the negative terminal (-) ②, and finally ground terminal ③.
9. Assemble transparent protection cover. Close the wiring box cover, and lock the ratchet.
10. Loosen the two hex-socket screws using a socket wrench to detach the battery pack from the wall using lift handles



WARNING

According to regional regulations, several people may be required for moving equipment.

11. Repack in Box

Keep this manual for later use

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