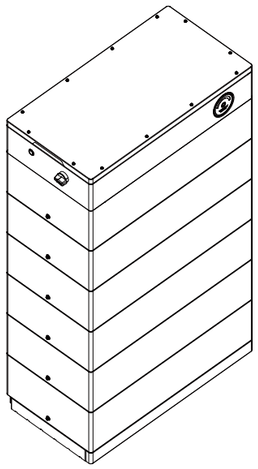
EM-5.2 KWH-H01 Energy Storage System Quick Start Guide



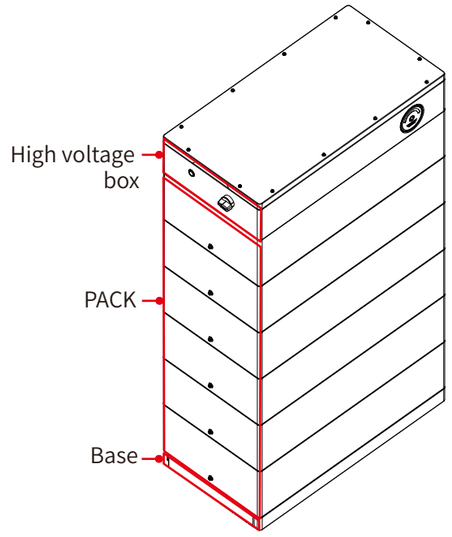
Including Model:
EB-5.2 KWH-H01
EB-10.24 KWH-H01
EB-15.36 KWH-H01
EB-20.48 KWH-H01
EB-25.6 KWH-H01
EB-30.72 KWH-H01
EB-35.84 KWH-H01
EB-40.96 KWH-H01
EB-46.08 KWH-H01
EB-51.2 KWH-H01

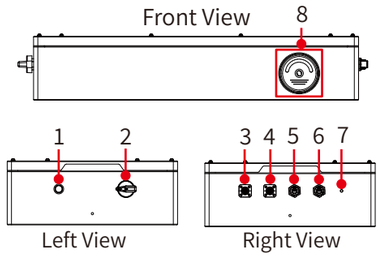
SINENG

Tips:
1、Please read these instructions carefully and follow the requirements for installation. Any equipment issues caused by non-compliant operations will not be covered under our company's warranty.
2、The cables used in battery energy storage system must be intact and well insulated. Please use insulated tools and wear personal protective equipment (PPE) during operation.
3、This document will be updated from time to time due to version upgrades or other reasons. In no case shall this document replace the User Manual and the safety instructions of the product.

Product Overview

1

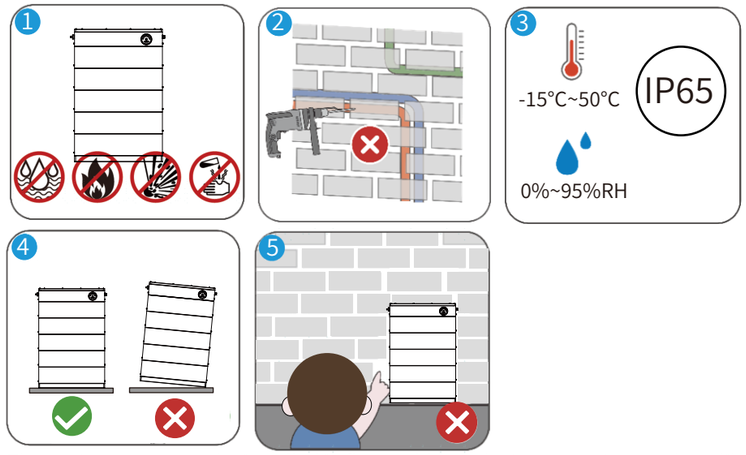




1	Start Button	2	DC Switch
3	BAT+	4	BAT-
5	COM1	6	COM2
7	Ground point	8	LED-indicator

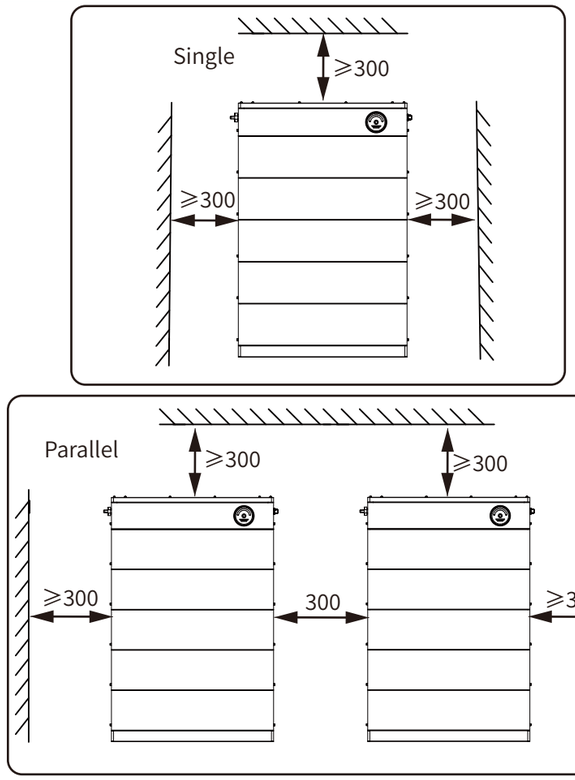
Requirements for installation environment

2



1、The equipment cannot be installed in flammable, explosive, corrosive or other alike environments.
2、Please avoid the water pipes and cables in the wall to avoid danger when drilling holes for installation.
3、The equipment protection level meets the requirements for indoor and outdoor installation, and the temperature and humidity of the installation environment must be within the appropriate range.
4、The product must be installed away from direct sunlight, rain, snow, and other similar environments.
5、The installed equipment should be out of reach for children, and should not be in places that are easy to touch. The surface of the equipment may be hot when it is in operation, take caution to avoid burns.
6、Do not install the battery at forward tilted, back tilted, side tilted, horizontal, or upside down positions.

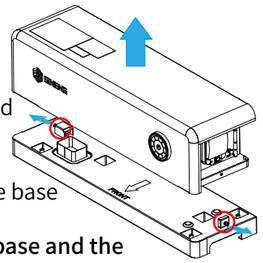
Installation Space Requirements

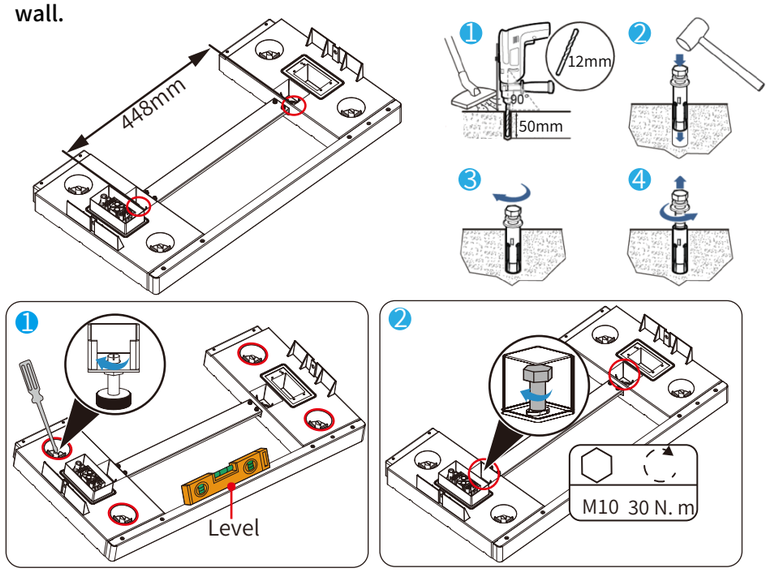


3

Installation of product

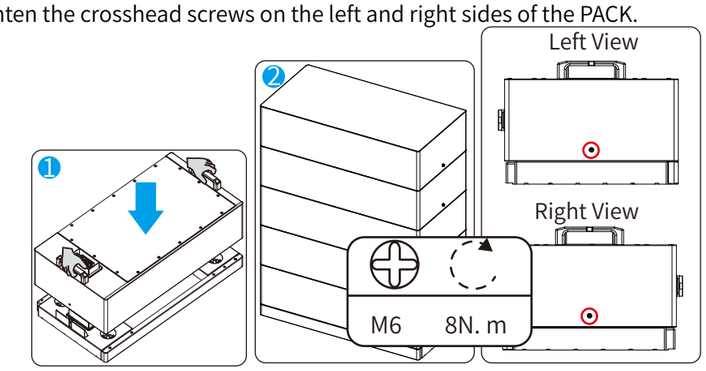
Step 1 Unscrew the screws on both sides, separate the base from the high-voltage box, and remove the base.
Step 2 Place the base at the installation position and mark the drilling positions in accordance with the dimension marks.
Step 3 Drill holes with a hammer drill and install the base expansion bolts.
Note: A 20mm distance shall be left between the base and the wall.





4

Step 4 Install the PACK.
1. Using lifting bars, move the first section of the PACK onto the base.
2. Please install the first 5 sections of the PACK according to the method shown in the di-agram.
3. Tighten the crosshead screws on the left and right sides of the PACK.

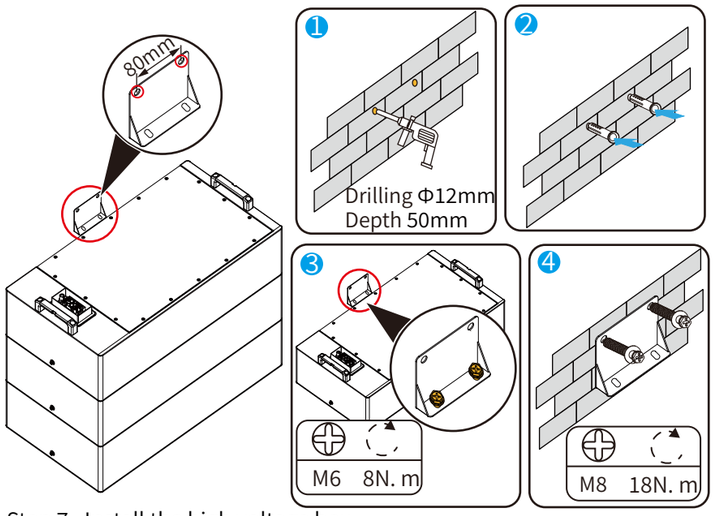


5

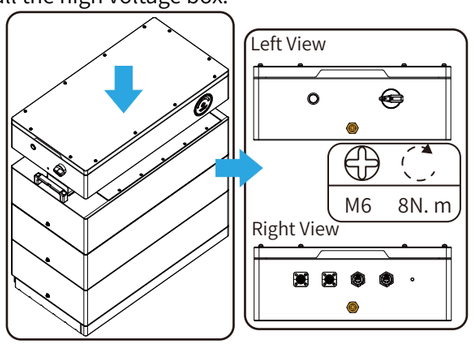
Step 6 Install the L-shaped structural part.
1. Place the L-shaped structural part at the installation position and mark the mounting holes.
2. Drill the holes and install the expansion screws.
3. Tighten the L-shaped structural member to the PACK and the wall surface.

Caution

a. According to the wall spacing, adjust the L-shaped structural member and tighten the screws.
b. Before drilling, cover the surface of the PACK with a dust-proof cloth to prevent dust contamination.

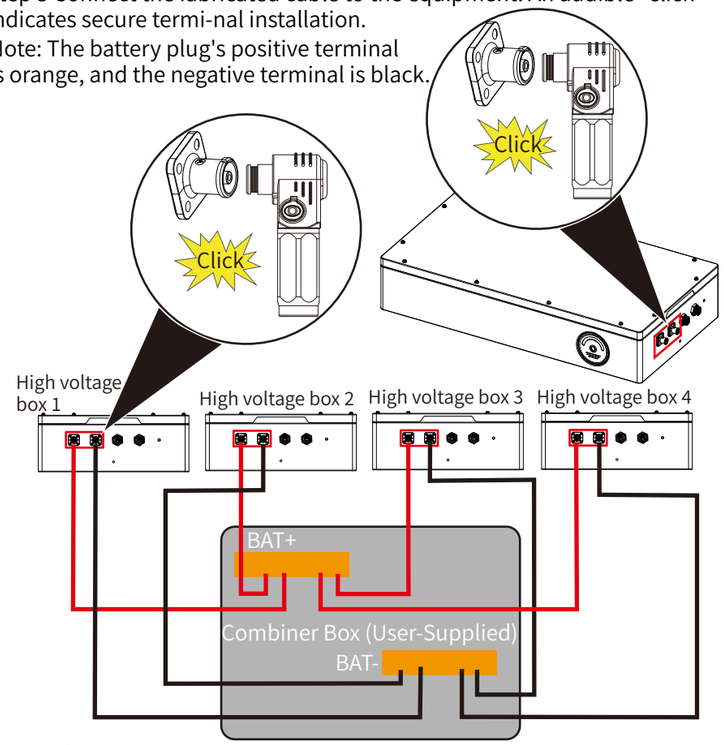


Step 7 Install the high voltage box.



Step 3 Connect the fabricated cable to the equipment. An audible "click" indicates secure termi-nal installation.

Note: The battery plug's positive terminal is orange, and the negative terminal is black.



Step 4 (Standalone) Install the other end of the cable to the inverter.

Step 5 (Parallel) Connect Combiner Box to inverter with cables.

6

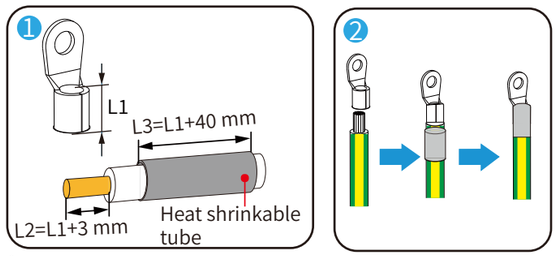
Installing the Cables

7

Scenario	Type	Copper Wire (mm^2)	Fastening Bolt	Torque (N.m)
Grounding cable	Copper core cable	6	M6(OT terminal)	8
DC cable	Copper core cable Meet the standard for 1000V	6	Direct cable terminal	\
Communication cable	\	\	RJ45 cable terminal	\
If the cables are placed outdoors, please use dedicated UV-resistant cables.				

Installing the Grounding Cable

Step 1 Crimping terminals.

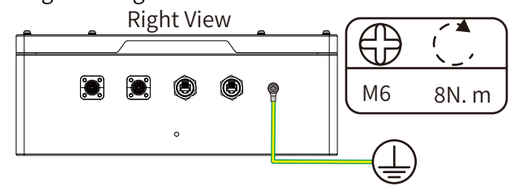


Caution

The product should be grounded at the nearest ground point. For multiple products connected in parallel in the same system, the protective ground cables of all products must be connected to the same ground busbar.

Step 2. Use a Phillips screwdriver to install the grounding cable onto the grounding point of the High Voltage Box, and mount the other end of the cable to the main grounding busbar.

8

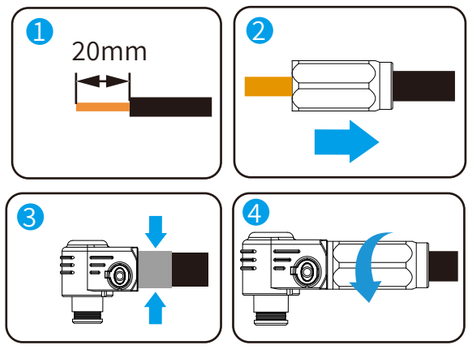


Step 3. After the ground terminal is tightened, apply silicone or outdoor paint on the outside of the terminal.

Install Battery cables

Step 1. Fabricate the cable, thread it through the end cap, and perform crimping using the hydraulic tongs.

Step 2. After crimping, re-tighten the end cap securely.



Caution

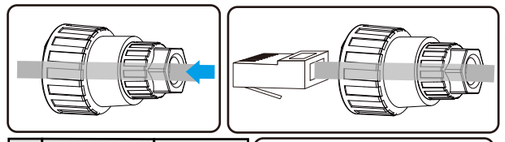
Please use the companyissued screws for power cable or busbar connections. Failure to do so may cause connection abnormalities and affect the normal operation of the power conversion system.

9

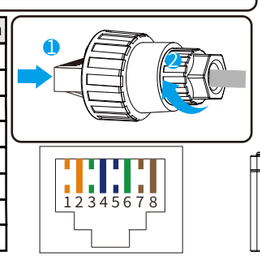
Install the Communication Cable

10

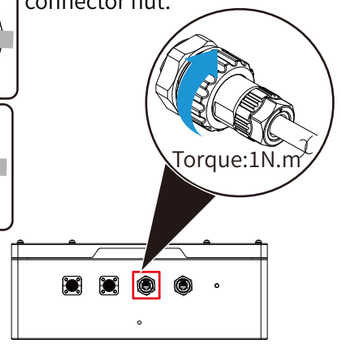
Step 1 Making cable.



PIN	Colour	Description
1	White-orange	CAN3_1_H
2	Orange	CAN3_1_L
3	White-green	RS485_A
4	Blue	CAN3_2_H
5	White-blue	CAN3_2_L
6	Green	RS485_B
7	White-brown	NC
8	Brown	NC

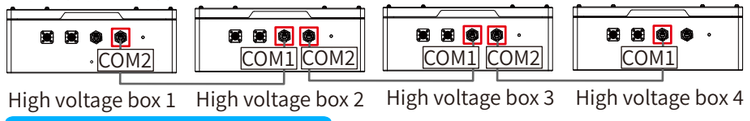


Step 2. Insert the cable into the COM1 port and tighten the connector nut.



Step 5 Install the other end of the cable to the inverter.

Step 6 (Optional) Install the parallel communication cables.



Check after Installation

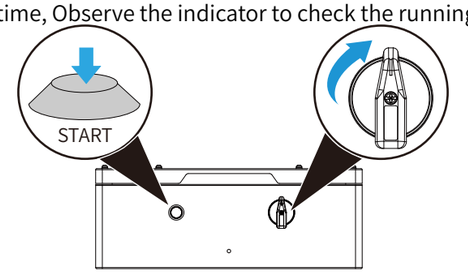
SN	Acceptance Criteria	Check Result: Yes√/No×
1	The installation is correct and reliable.	☐
2	Cables are routed properly as required by the customer.	☐
3	Cable ties are evenly distributed and no burr exists.	☐
4	The PE cable is connected correctly, securely, and reliably.	☐
5	All switches connected to the battery are OFF.	☐
6	Power cables and signal cables shall be connected properly and securely.	☐
7	Unused terminals and ports are locked by wa-tertight caps.	☐
8	The installation space is proper, and the instal-lation environment is clean and tidy.	☐

11

Power-On

Step 1 Turn on the DC switch on the high voltage box.

Step 2 Press and hold the power button, the device powers on, and the indicator lights enter the running light mode. After the battery is installed and powered on for the first time, Observe the indicator to check the running status.



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