1. Tools Required

The following tools will be required to install PS2900H

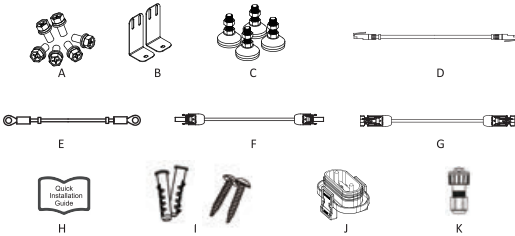|			
Screw Driver	Crimping Modular	Safety Shoes	Multimeter
Safety Gloves	Safety Goggles	Plier	Ribbon
Electric Drill	Track Level Bar	Tape	Marker

2. Packing List

For PS2900H-S :

No.	Items
A	Mounting screw pack
B	Installation guide

For PS2900H-M :

No.	Items	No.	Items
A	Mounting screw pack	G	DC negative output cable
B	Fixing bracket	H	Installation guide
C	Footstand	I	Expansion tube*2 & Expansion screw*2
D	Communication cable (BMS-inverter)	J	Waterproof cover
E	Grounding cable	K	RJ45
F	DC positive output cable		

3. Terminals

For PS2900H-S :

Handle
Battery Fixing Hole
Operating Status LED

For PS2900H-M :

Left

Handle
Bracket Mounting Hole
Battery Fixing Hole

B-Start Switch
POWER Switch
BMS Status LED
SOC LED
Operating Status LED
DC Switch

Right

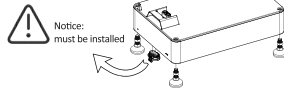Handle
CAN
DC OUT-
DC OUT+
Bracket Mounting Hole
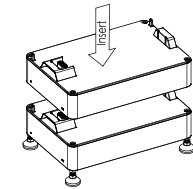Earth Terminal
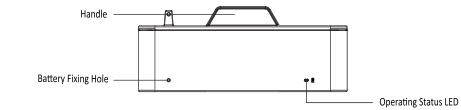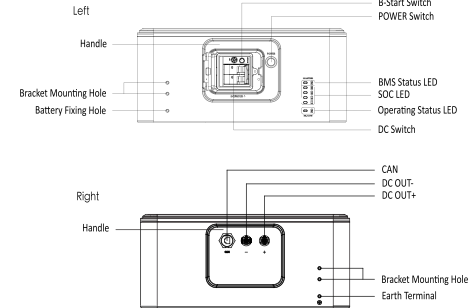
4. Installation Steps

Step 1

Install a PS2900H-S with four footstand (Item C) and place it on the ground. Adjust the feet till level. After installing the footstand, use a track level bar to confirm the level. Insert the waterproof cover (Item J) into the bottom of the battery and lock it in place with the clip.
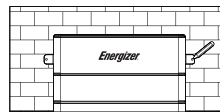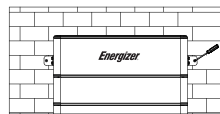

⚠ Notice: must be installed

Step 2

Place the battery 20mm against the wall. Note: Please make sure the Operating Status LED is on your left handside when you facing the battery model.

20mm
20mm
300mm
300mm
LED

Step 3

Stack the batteries one by one.

Insert
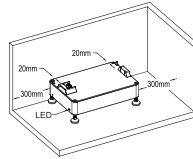
Step 4

Place the two fixing brackets (Item B) close to the wall and install them on both sides of the battery.

Step 5

Mark the wall through the bracket hole.

Step 6

After removing the PS2900H-M. Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes (Item I).

Step 7

After stacking PS2900H-M again, fix the battery on the wall.

Step 8

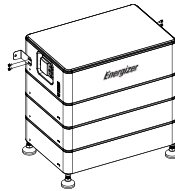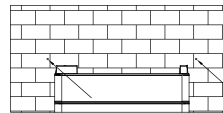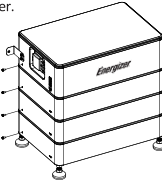Fix the mounting screw packs on both sides of the battery, the installation is over.

Note: Please make sure each system including 1 PS2900H-M and 1 PS2900H-S. PS2900H-S less than 6 pieces:

PS2900H-M

PS2900H-S
≤ 6 Layers

Please refer to the video for the installation of the junction box and the cable gland.


5. Wiring Steps

A: Connect the inverter and make sure the wiring position is correct, as shown in the figure below.
Note: Inverter wiring refer to the inverter user manual.

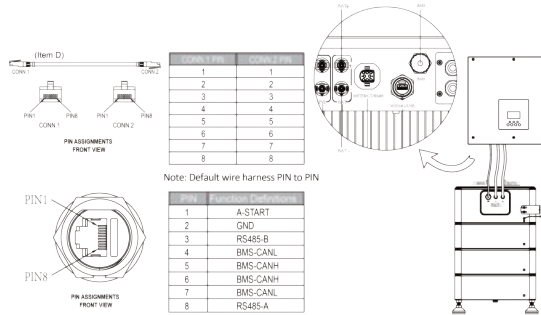**For outdoor use, please use item K and proceed as follows**
Connection steps:
Step 1: Prepare a standard network cable and cable connector, then insert the network cable through the cable connector.
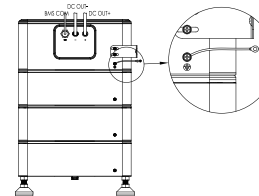

Step 2: Crimp the cable with a Rj45 plug which is inside of the cable connector.

network cable
cable connecter
Rj45 plug
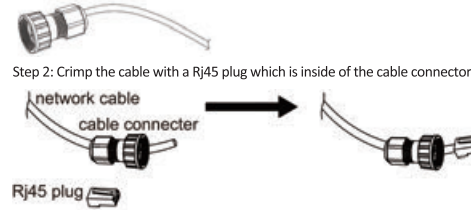
If the usage is indoor, please use item D

Step 3: Insert the cable connector into BMS port at the bottom of inverter and screw it tightly.

(Item D)

CONN 1 PIN	CONN 2 PIN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Note: Default wire harness PIN to PIN

PIN	Function Definitions
1	A-START
2	GND
3	RS485-B
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	RS485-A

PIN1
PIN8
PIN ASSIGNMENTS FRONT VIEW

B: Connect the grounding cable. The figure is shown in below.

BMS CONN
DC OUT-
DC OUT+

6. System Startup

PM operation:

1. Normal mode: When there is PV and grid access, turn on DC switch first, then press "POWER" button.
2. Black start: When there is no PV and grid access, turn on DC switch first, then press "POWER" button, then press and hold "B-Start" button and release it after 10s.

Startup steps:

Turn on DC switch and press the POWER switch. Alarm display and Alarm LED on PS2900H-S/PS2900H-M will light up at the same time for 1s to prove that the system is powered on successfully. The control panel is shown in below.

POWER
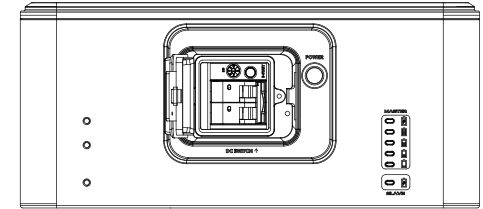
To view all relevent documentation such as Install Manuals and Guides, scan the QR code below.