

T-BAT-SYS-HV-S25
T-BAT-SYS-HV-S36

Installation Manual

eManual in the QR code or at
http://kb.solaxpower.com/

www.solaxpower.com

2022-12_Rev_00_EN

Safety

General Notice

1. Contents may be periodically updated or revised. SolaX reserves the right to make improvements or changes in the product(s) and the program(s) described in this manual without the prior notice.
2. The installation and maintenance can only be performed by qualified personnel who:
   - Are licensed and/or satisfy state and local jurisdiction regulations;
   - Have good knowledge of this manual and other related documents.
3. Before installing the device, carefully read, fully understand and strictly follow the detailed instruction of the user manual and other related regulations. SolaX shall not be liable for any consequences caused by the violation of the storage, transportation, installation, and operation regulations specified in this document and the user manual.
4. Use insulated tools when installing the device. Individual protective tools must be worn during installation, electrical connection and maintenance.
5. Please visit the website www.solaxpower.com of SolaX for more information.

Descriptions of Labels

	CE mark of conformity		TUV certification
	CSA mark for UL1973		UKCA mark of conformity
	The battery module may explode		Caution, risk of electric shock
	Caution, risk of danger		Safety glasses must be worn
	Read the enclosed documentations		Keep the battery system away from children
	Keep the battery system away from open flames or ignition systems		Do not dispose of the battery module together with household waste.
	Do not dispose of the battery module together with household waste.		
	The battery system must be disposed of at a proper facility for environmentally-safe recycling		

Note: The table is only used for the description of symbols which may be used on the battery. Please be subject to the actual symbols on the device.

DANGER!

In the case of any of following circumstances, electric shock may occur:

- Disassemble the battery module;
- Touch the battery module with wet hands;
- Install or operate the battery module in places where there is excessive moisture or liquids.

WARNING!

In the case of any of the following circumstances, personal injury or battery damage may occur:

- The battery module was involved in a collision;
- Crush or puncture the battery module;
- Dispose the battery module in a fire;
- Expose the battery module to the temperature in excess of 140 ℉ ;
- Place the battery module near a heat source, such as a fireplace;
- Expose the battery module to direct sunlight;
- Allow the battery connectors to touch conductive objects, such as wires;
- Place the battery module in a high-voltage environment;
- Place any objects on the top of the battery module.

CAUTION!

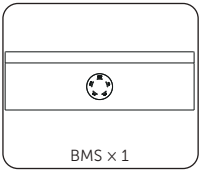
- Keep children away from the battery module;
- Please check the battery module periodically. Personal injuries may be caused if not handled properly.

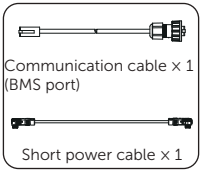
NOTICE!

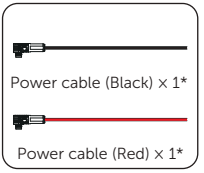
- In case the battery module leaks electrolyte or any other chemical materials, be sure to avoid contact with the discharge at all times. In case of accidentally coming into contact with them, always wash your hands thoroughly with soap and water afterwards. In case of eye contact, seek medical attention immediately.
- If a fire breaks out where the battery module is installed, extinguish the fire before the battery catches fire; in case the battery module catches fire, do not try to put out the fire, and evacuate immediately.
- In case the battery module gets wet or is soaked in water, do not touch.
- In case the battery module is damaged, do not use it. Otherwise, it may result in both personal injury and property damage.

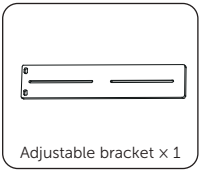
Packing List

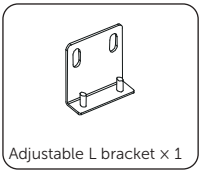
BMS (TBMS-MCS0800)

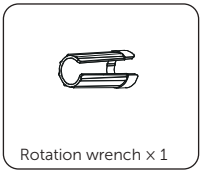

BMS × 1

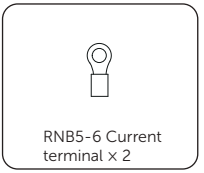


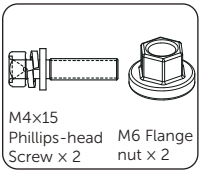


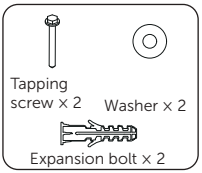

Adjustable bracket × 1

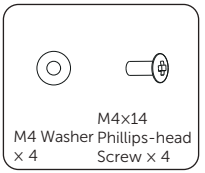

Adjustable L bracket × 1

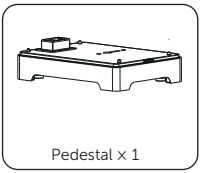

Rotation wrench × 1

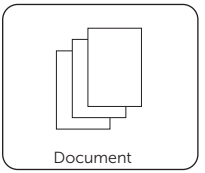

RNB5-6 Current terminal × 2





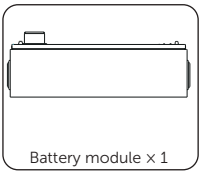


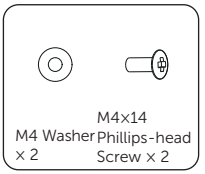

Pedestal × 1

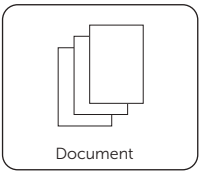

Document

Note: The mark "" indicates that the connector connecting inverter on the power cable, connecting BMS and inverter, is delivered with the inverter's accessories kit.

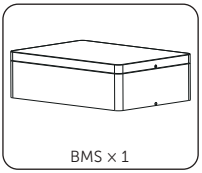
Battery Module (TP-HS25/ TP-HS36)

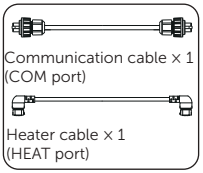

Battery module × 1

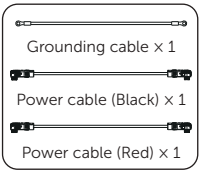


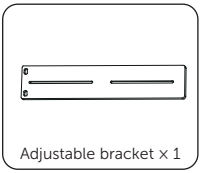

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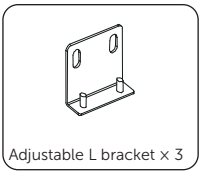
Series Box

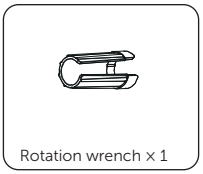


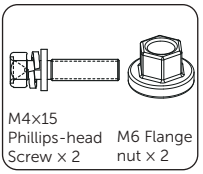


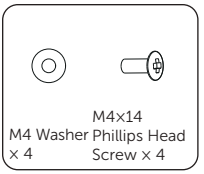


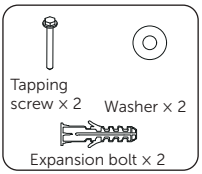


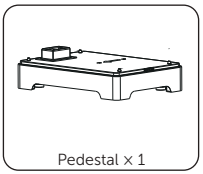






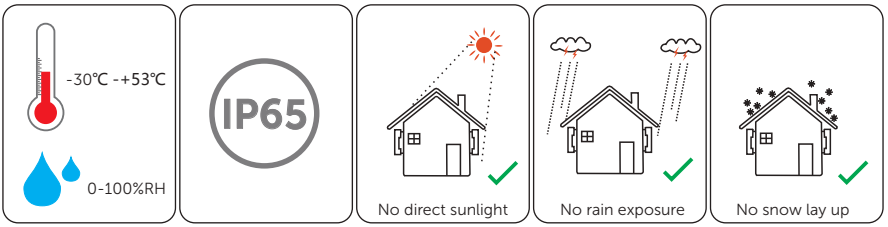


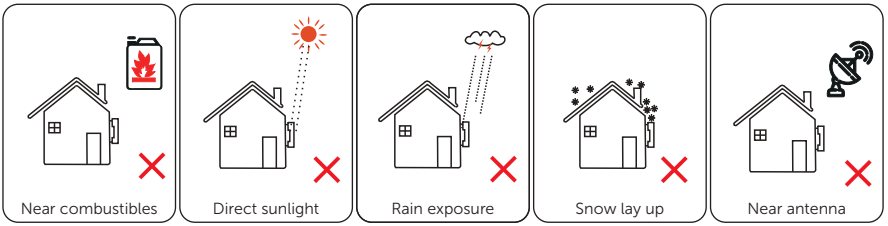




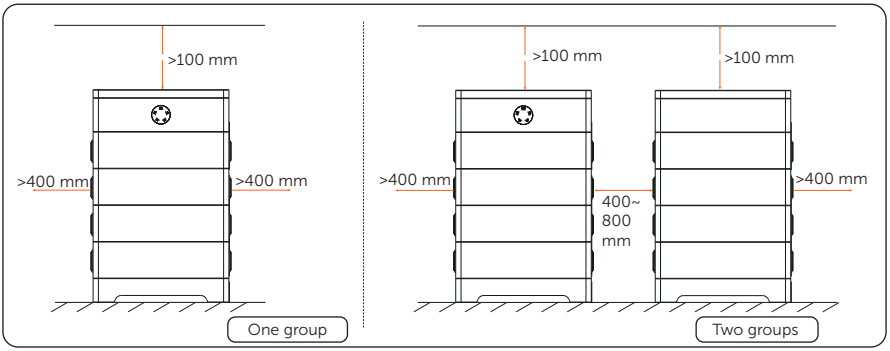
*Note:
1. If the battery module purchased excesses 10 sets (including 10), these battery modules should be installed in two groups, and the Series Box should be installed to connect two groups in series.
2. If the battery module purchased is less than 9 sets (including 9), these battery modules may be installed in one or two groups. In case of two groups, the Series Box is recommended to install.
3. Additionally, the above accessories kit for Series Box needs to be purchased by customers themselves.

Installation Site



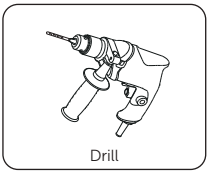


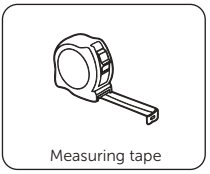
Installation Space

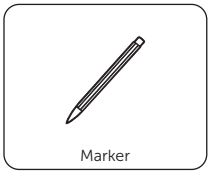


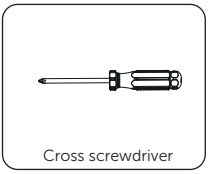
*Note: The above figure shows an example of installation space of "One Group" and "Two Groups".

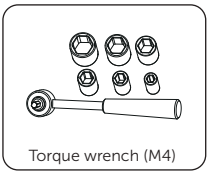
Installation Tools

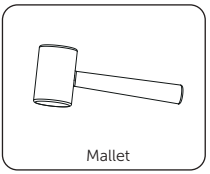

Drill

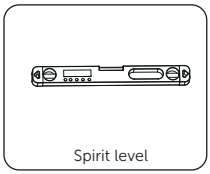

Measuring tape

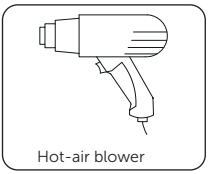

Marker

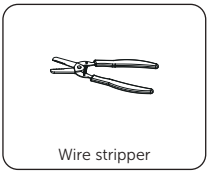

Cross screwdriver

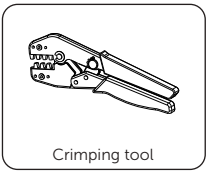

Torque wrench (M4)

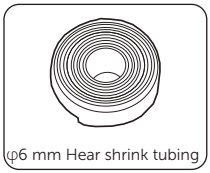

Mallet

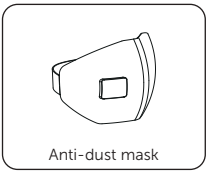

Spirit level


Hot-air blower


Wire stripper


Crimping tool


φ6 mm Hear shrink tubing


Anti-dust mask


Safety gloves


Safety boots

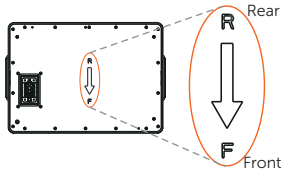

Safety goggles

Mechanical Installation

*Note: Up to 9 battery modules can be installed in a group. If the battery module users purchased excesses 10 sets (including 10), a Series Box needs to be installed to connect two groups in series.

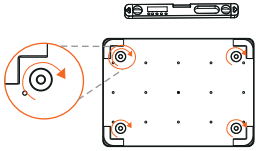
Installation steps without Series Box

Take the installation procedure for four battery modules as an example.
Step 1: Take out and adjust Pedestal



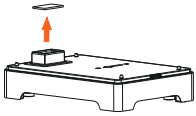
The side with "R" shall be against the wall

1



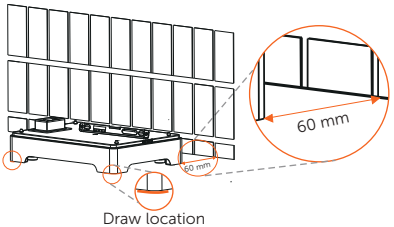
Turn clockwise, lower the Pedestal
Turn anticlockwise, raise the Pedestal

2



3

Step 2: Locate the Pedestal, and accurately draw the location on both sides

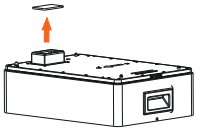


Draw location

4

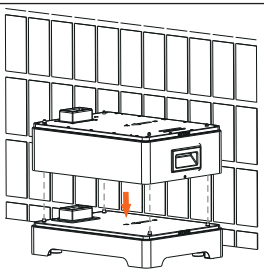
Note: The distance between the Pedestal and the wall can be about 20~200 mm, but the recommended distance is 60 mm.

Step 3: Place the battery module



The side with "R" shall be against the wall

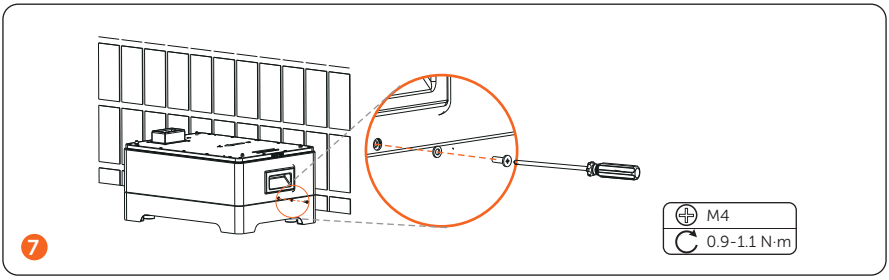
5



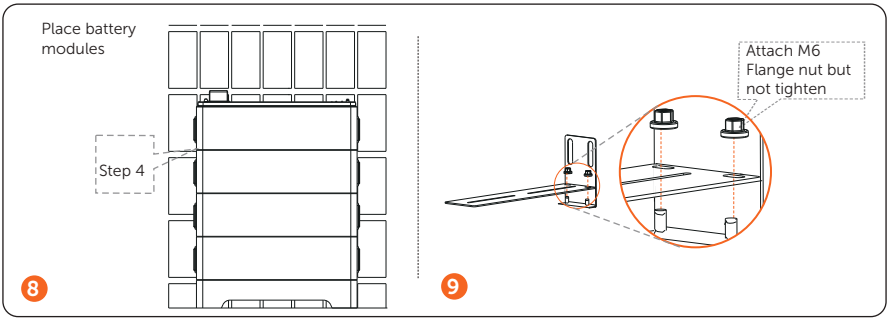
6

Note: If the Pedestal is shifted after placing battery module, move it to its original location according to the mark previously drawn.

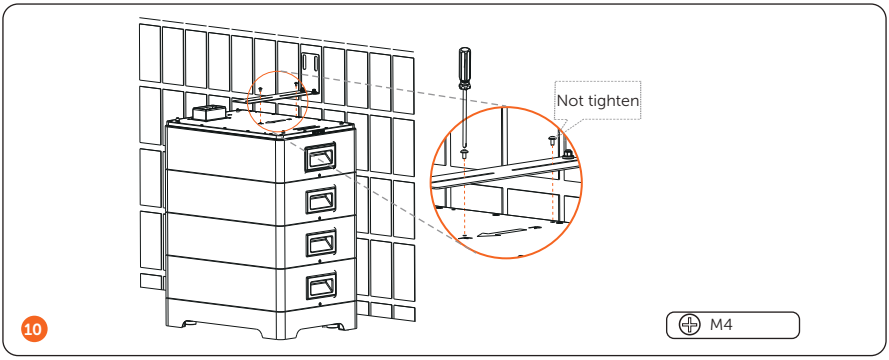
Step 4: Secure and tighten M4x14 Phillips-head screw on both sides

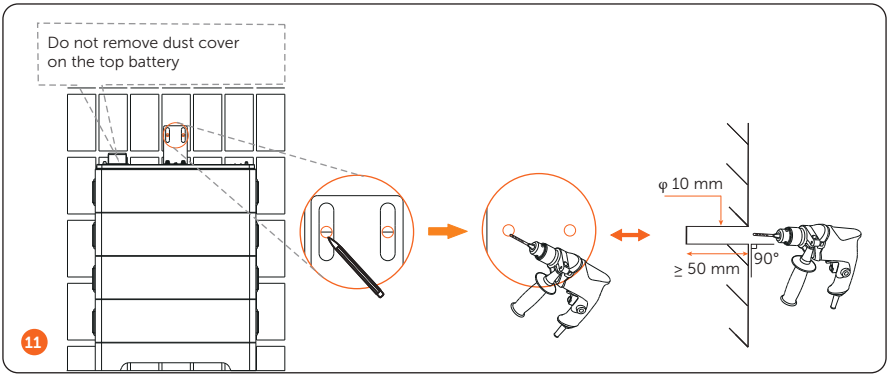


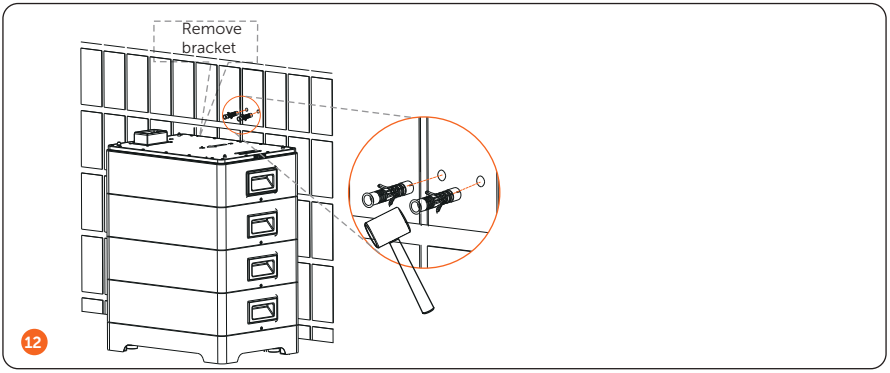
Step 5: Repeat the Step 3 and 4 to install the rest of battery modules
Step 6: Join Adjustable Bracket and Adjustable L Bracket with M6 Flange Nut

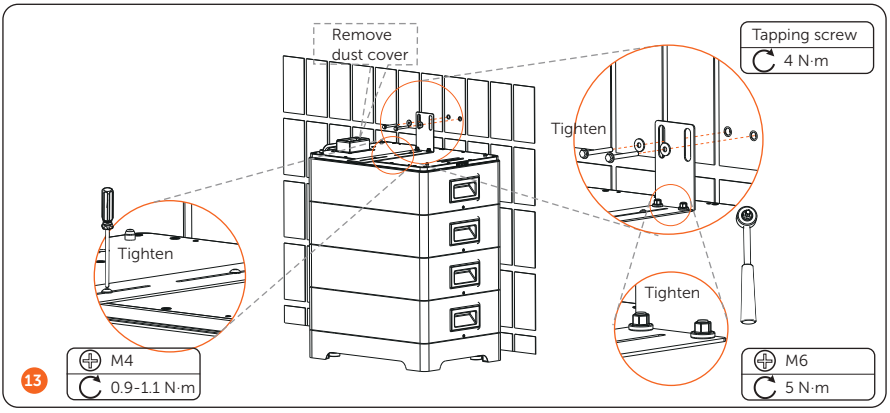


Step 7: Secure the assembled bracket on the battery module and wall

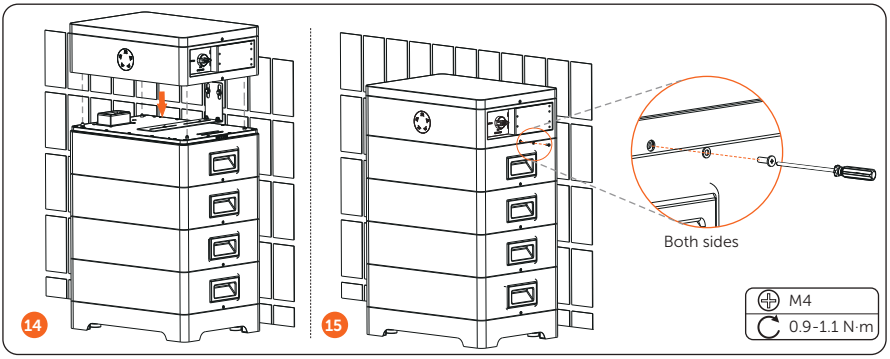



Do not remove dust cover on the top battery
φ 10 mm
≥ 50 mm
90°
11

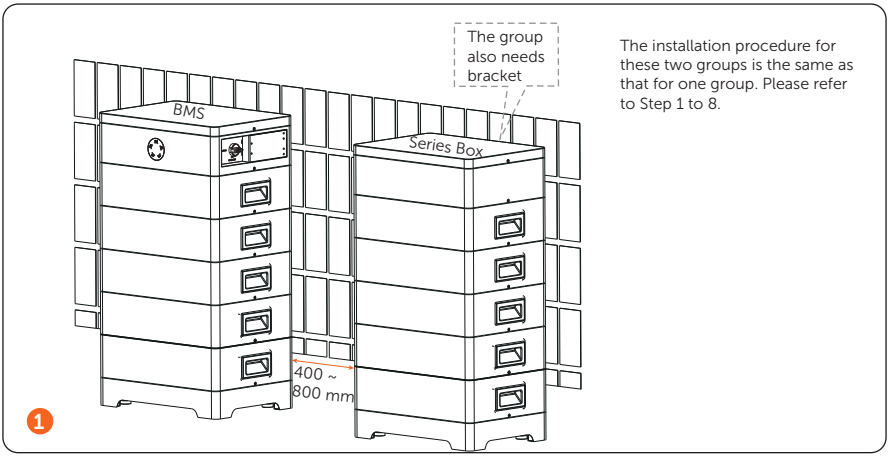

Remove bracket
12


Remove dust cover
Tapping screw
4 N·m
Tighten
Tighten
Tighten
M4
0.9-1.1 N·m
M6
5 N·m
13

Step 8: Place BMS

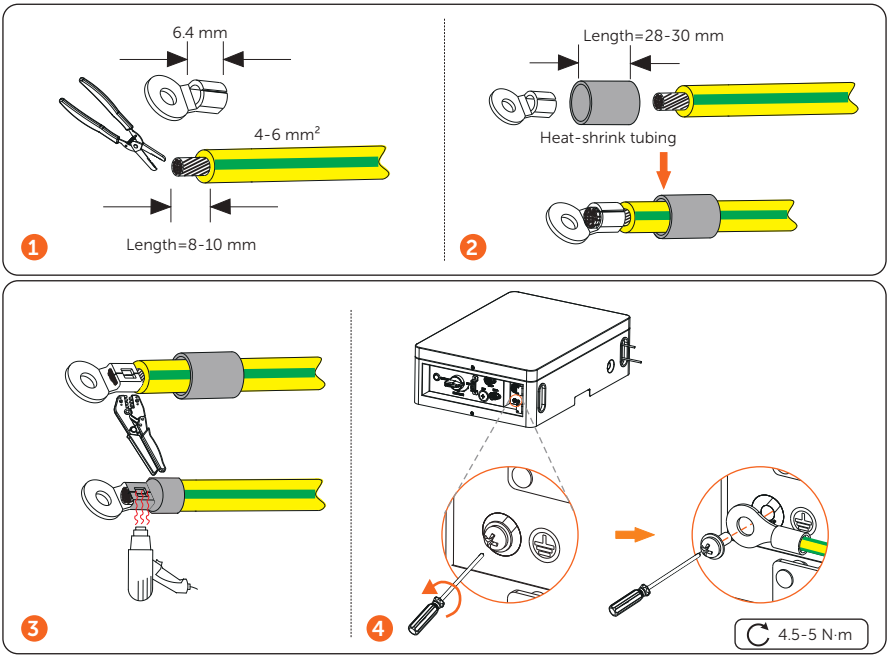


Installation steps with Series Box



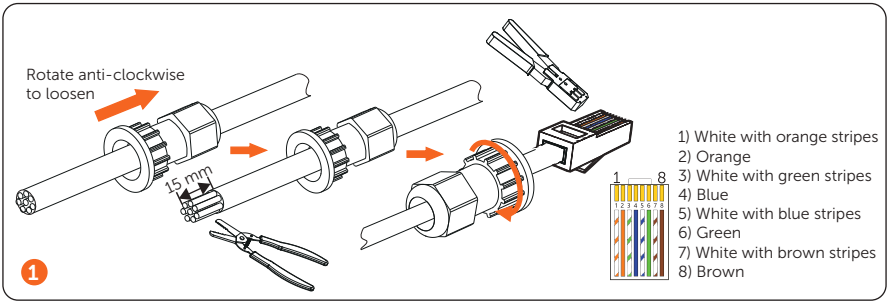
The installation procedure for these two groups is the same as that for one group. Please refer to Step 1 to 8.

Current Terminal Connection



*Note: The grounding cable should be prepared by the users themselves.

Communication Connection (connecting to inverter)



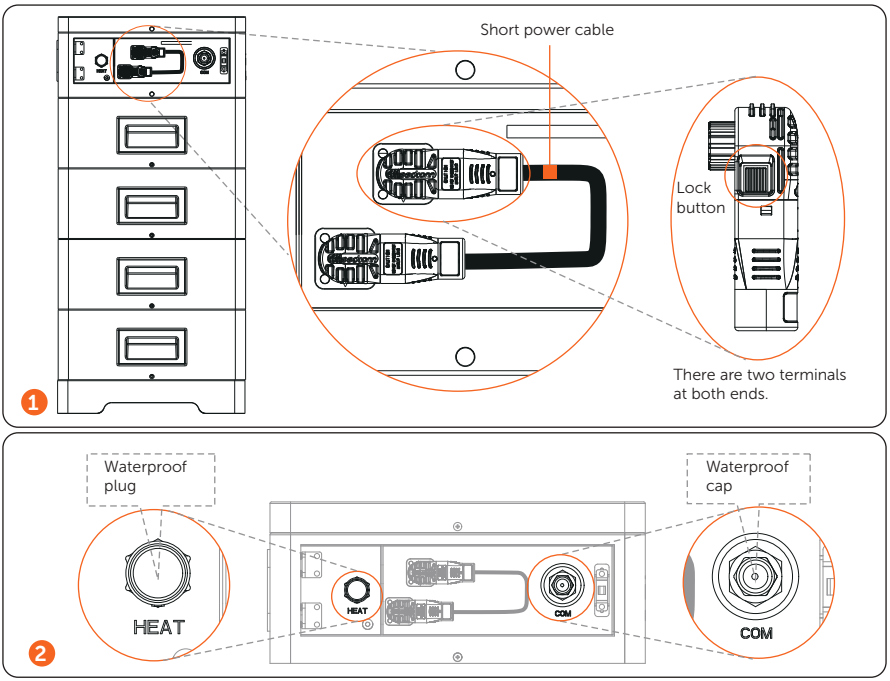
Pin	1	2	3	4	5	6	7	8
BMS	/	GND	/	BMS_H	BMS_L	/	A1	B1

Wiring

*Note: Press the door panel at both sides of BMS before wiring.

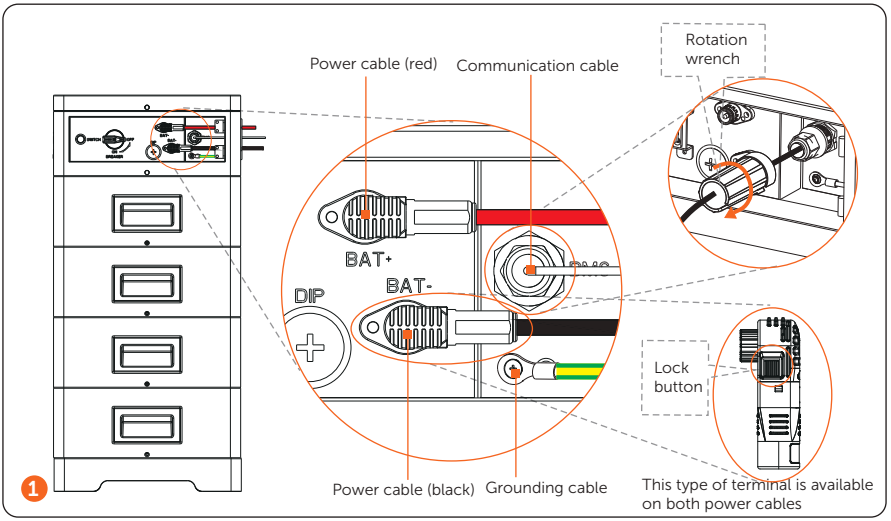
Wiring without Series Box

Left side of BMS



*Note: In case of one group, a waterproof cap shall be put on the unconnected COM port, as well as a waterproof plug on the unconnected HEAT port.

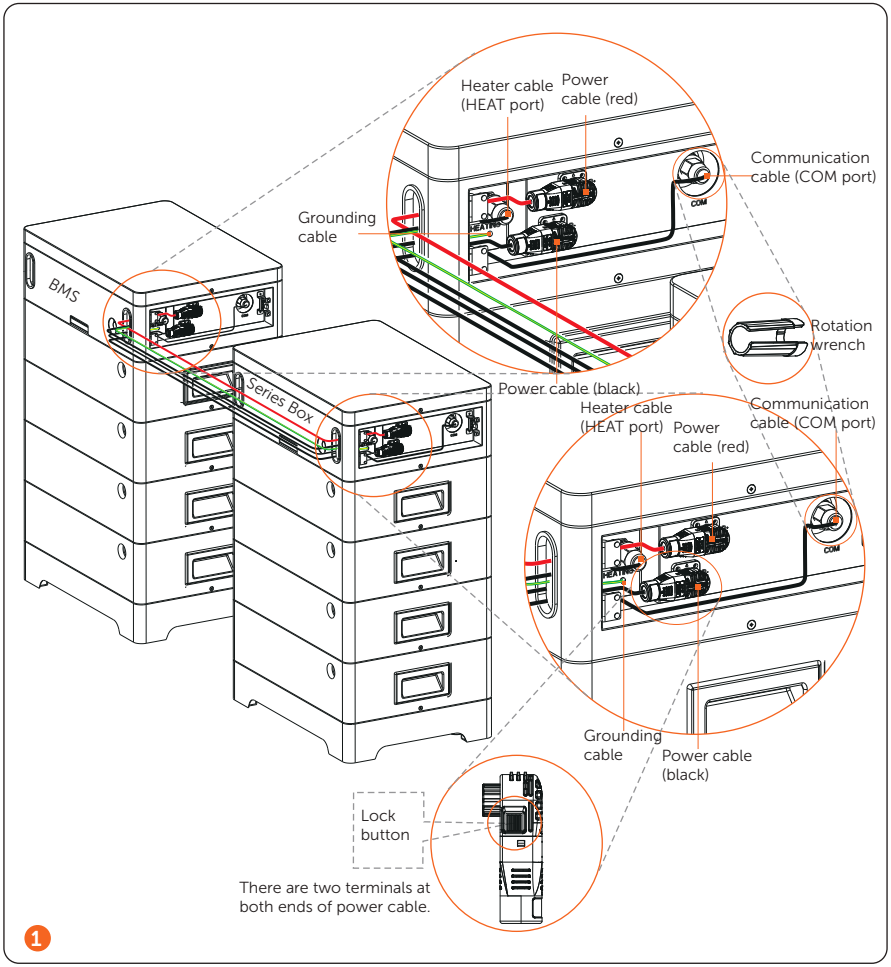
Right side of BMS



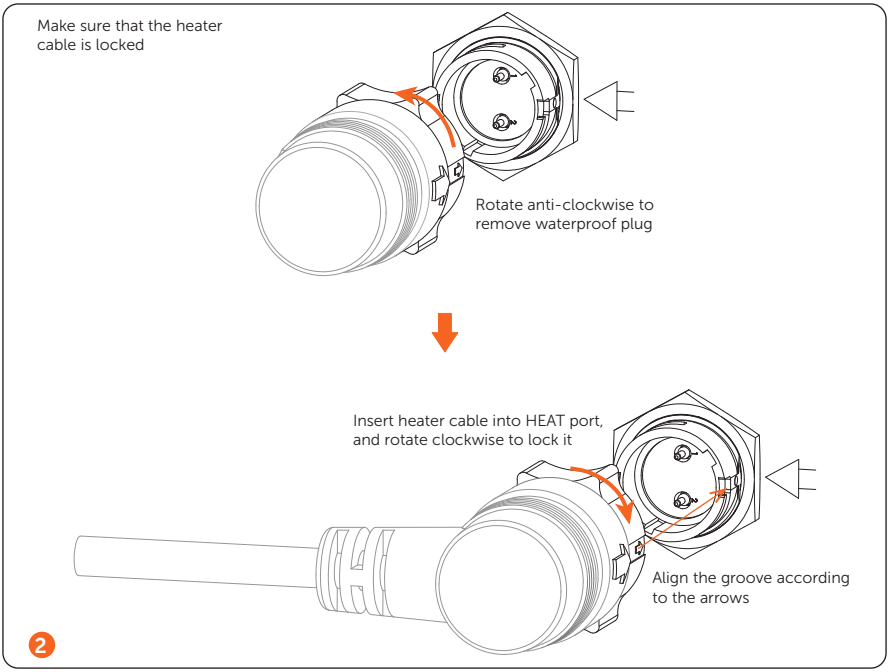
*Note:
1. Press and hold the Lock Button while unplugging the power cable, or it cannot be pulled out.
2. The rotation wrench is used to tighten the communication cable, and it may be removed after tightening.

Wiring with Series Box

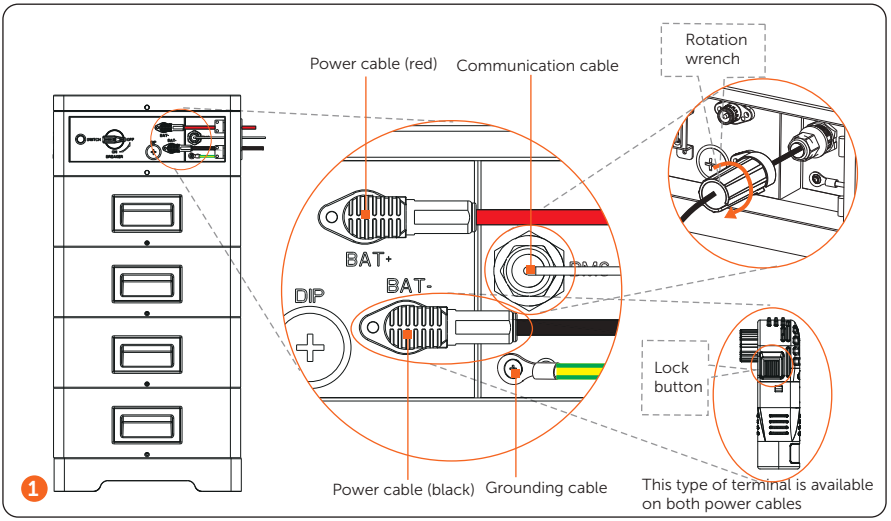
Wiring between BMS and Series Box



*Note: A protective pipe is recommended to use to keep cable insulation in place and avoid potential damages.

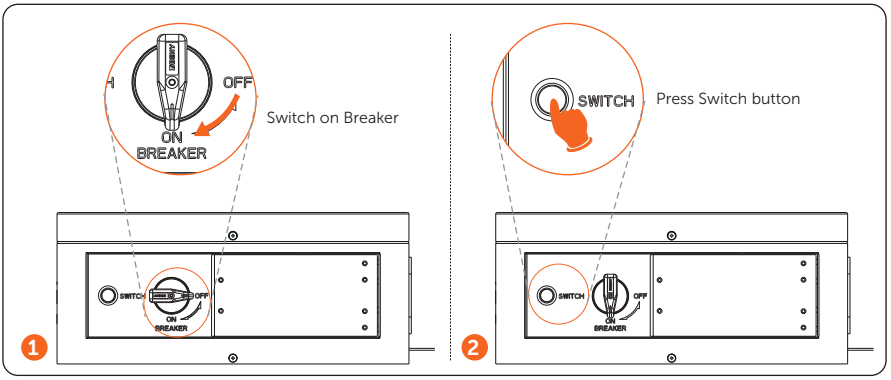

Make sure that the heater cable is locked
Rotate anti-clockwise to remove waterproof plug
Insert heater cable into HEAT port, and rotate clockwise to lock it
Align the groove according to the arrows
2

Right side of BMS



*Note:
1. Press and hold the Lock Button while unplugging the power cable, or it cannot be pulled out.
2. The rotation wrench is used to tighten the communication cable, and it may be removed after tightening.

Power on the System



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Warranty Registration Form

For Customer (Compulsory)

Name _____ Country _____

Phone Number _____ Email _____

Address _____

State _____ Zip Code _____

Product Serial Number _____

Date of Commissioning _____

Installation Company Name _____

Installer Name _____ Electrician License No. _____

For Installer

Module (If Any)

Module Brand _____

Module Size(W) _____

Number of String _____ Number of Panel Per String _____

Battery (If Any)

Battery Type _____

Brand _____

Number of Battery Attached _____

Date of Delivery _____ Signature_____

Please visit our warranty website: https://www.solaxcloud.com/#/warranty or use your mobile phone to scan the QR code to complete the online warranty registration.

For more detailed warranty terms, please visit SolaX official website: www.solaxpower.com to check it.



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