



# **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](http://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](http://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 °F ;
- 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!**

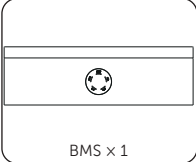
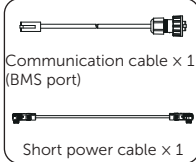
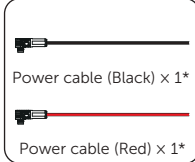
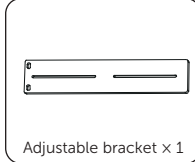
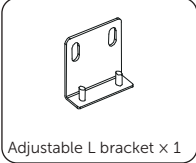
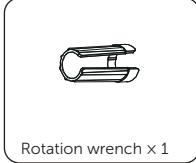
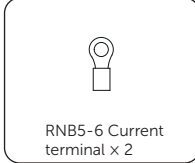
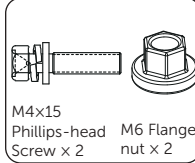
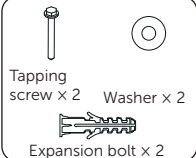
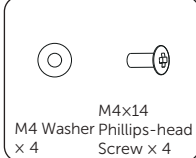
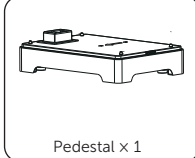
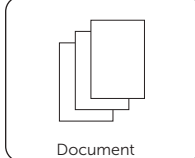
- Keep children away from the battery module;
- Please check the battery module periodically. Personal injuries may be caused if not handled properly.

**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.

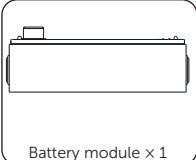
## Packing List

### BMS (TBMS-MCS0800)

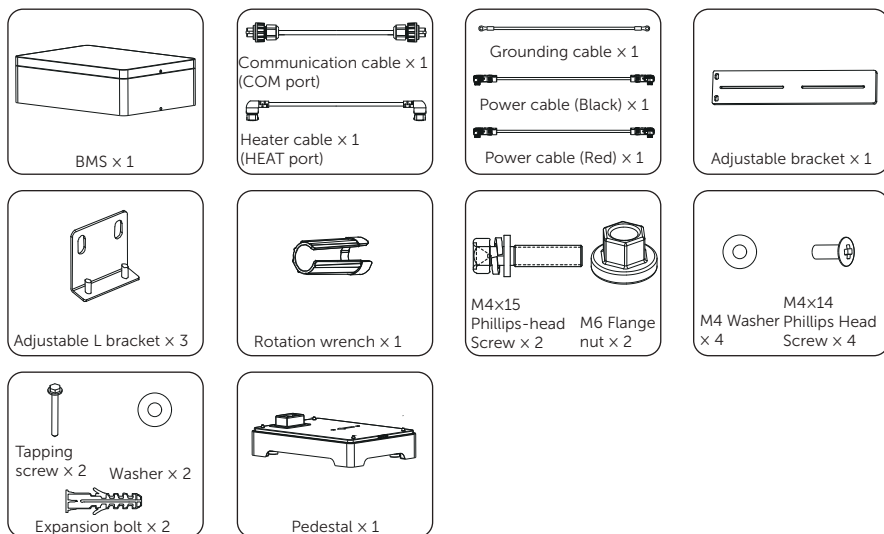
 BMS × 1	 Communication cable × 1 (BMS port)	 Power cable (Black) × 1* Power cable (Red) × 1*	 Adjustable bracket × 1
 Adjustable L bracket × 1	 Rotation wrench × 1	 RNB5-6 Current terminal × 2	 M4×15 Phillips-head Screw × 2    M6 Flange nut × 2
 Tapping screw × 2    Washer × 2 Expansion bolt × 2	 M4×14 M4 Washer Phillips-head Screw × 4	 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	 M4×14 M4 Washer Phillips-head Screw × 2	 Document
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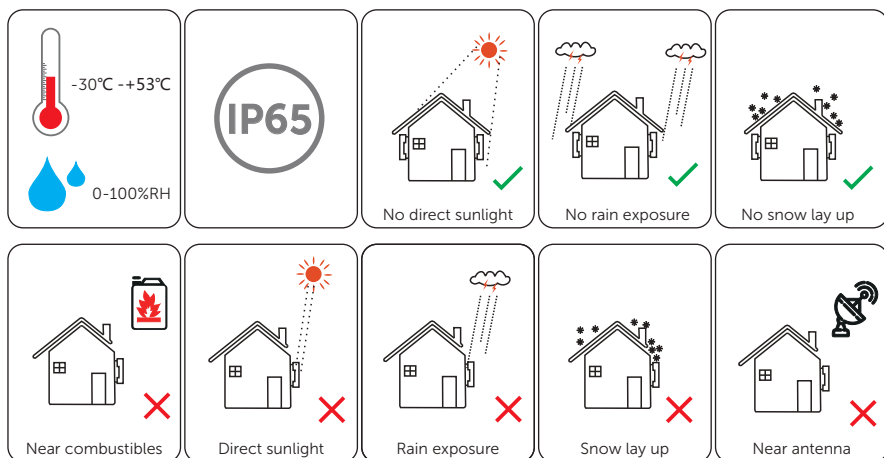
## Series Box



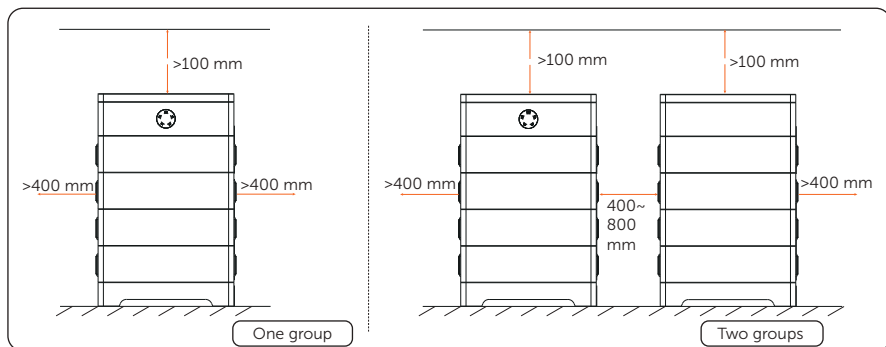
### \*Note:

1. If the battery module purchased exceeds 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

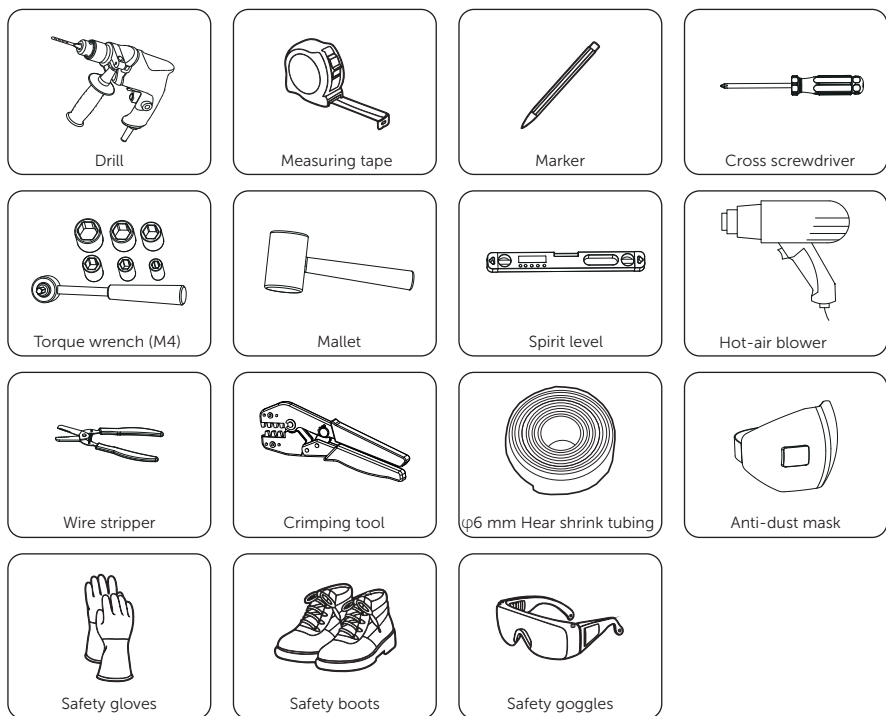


## Installation Space



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

## Installation Tools



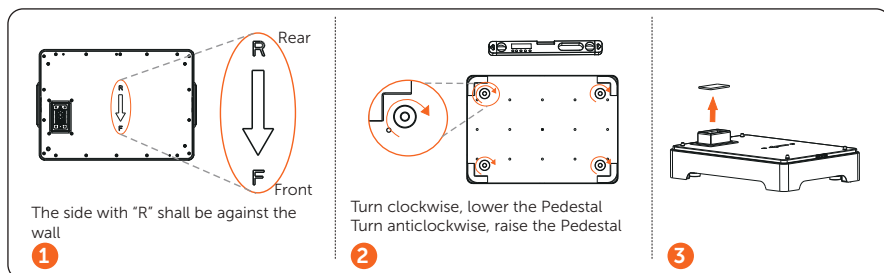
## Mechanical Installation

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

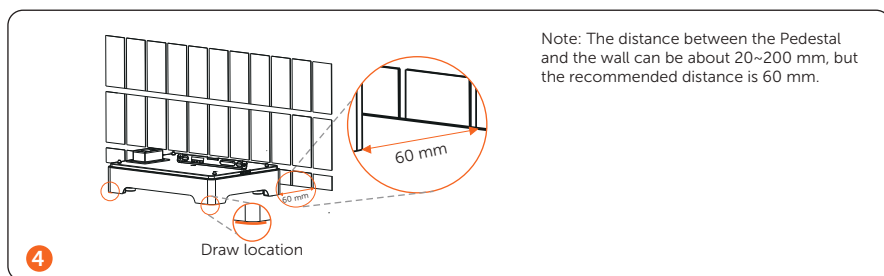
### Installation steps without Series Box

Take the installation procedure for four battery modules as an example.

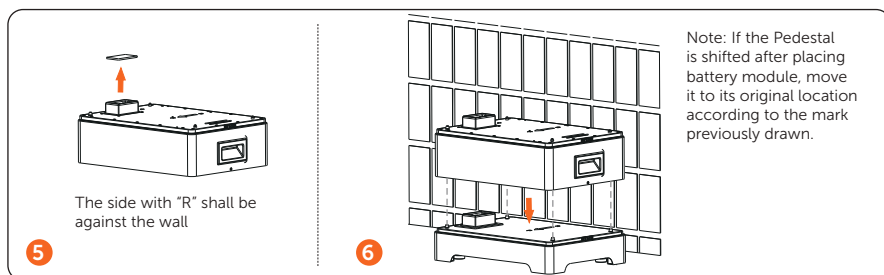
Step 1: Take out and adjust Pedestal



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

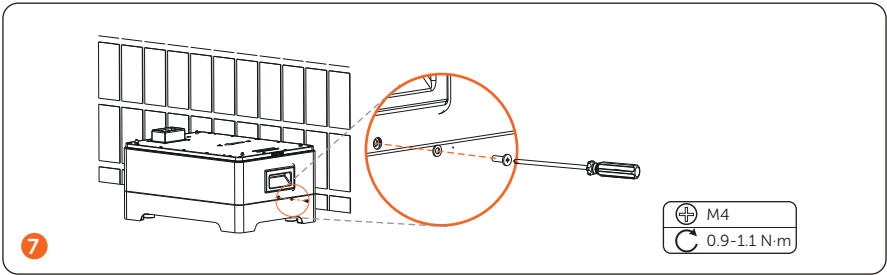


Step 3: Place the battery module



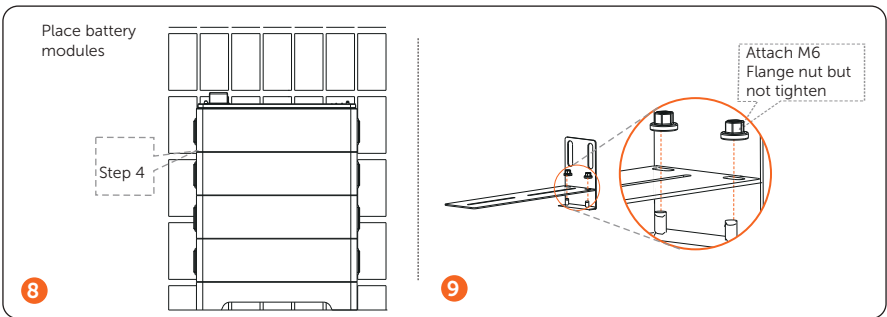


Step 4: Secure and tighten M4x14 Phillips-head screw on both sides

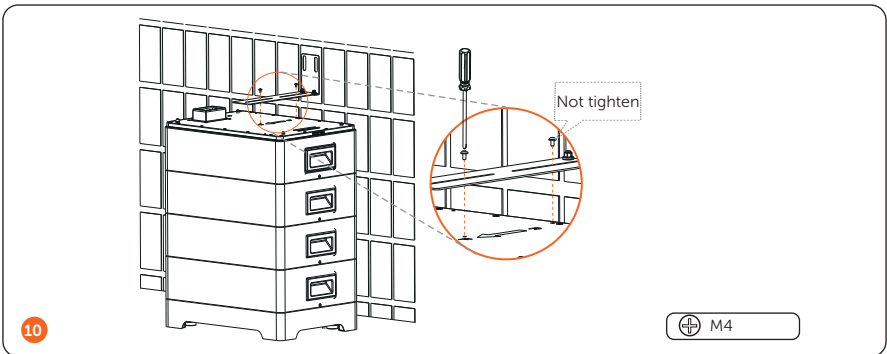


Step 5: Repeat the Step 3 and 4 to install the rest of battery modules

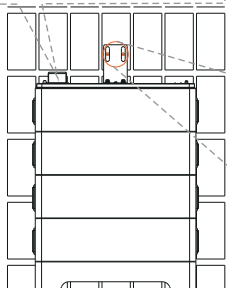
Step 6: Join Adjustable Bracket and Adjustable L Bracket with M6 Flange Nut



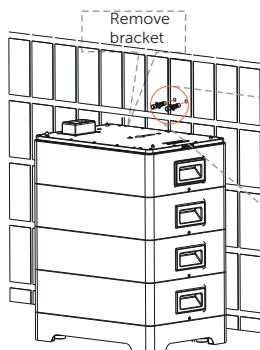
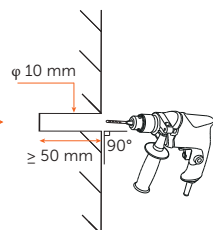
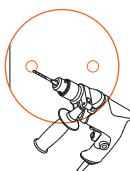
Step 7: Secure the assembled bracket on the battery module and wall



Do not remove dust cover  
on the top battery

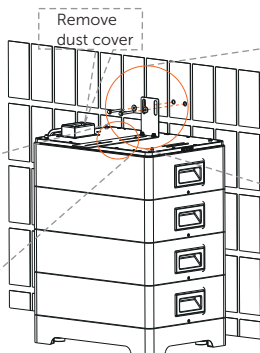
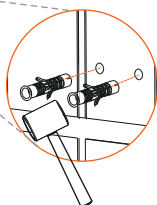


11



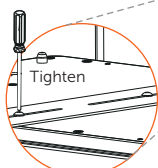
12

Remove  
bracket



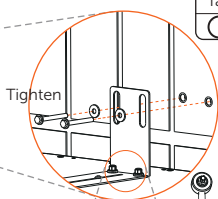
13

Remove  
dust cover



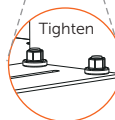
Tighten

M4  
0.9-1.1 N·m



Tighten

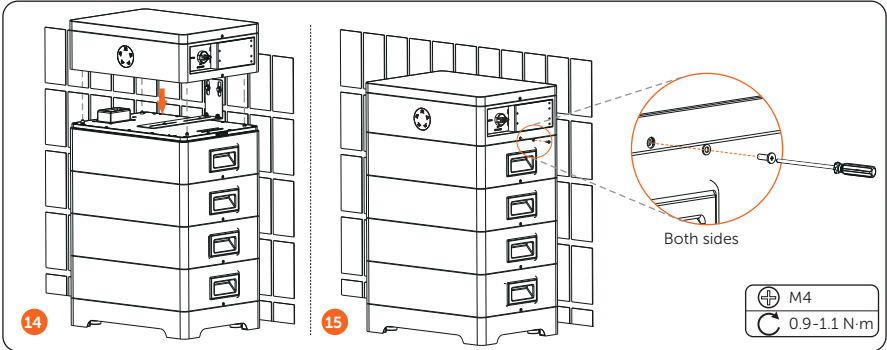
Tapping screw  
4 N·m



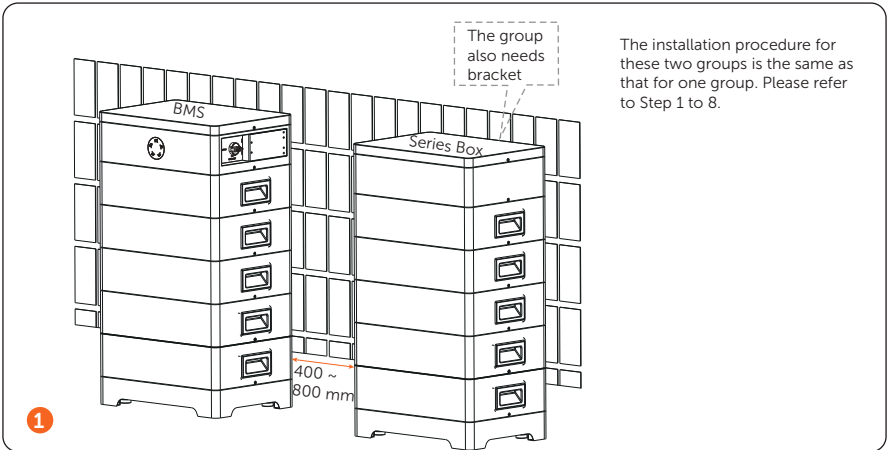
Tighten

M6  
5 N·m

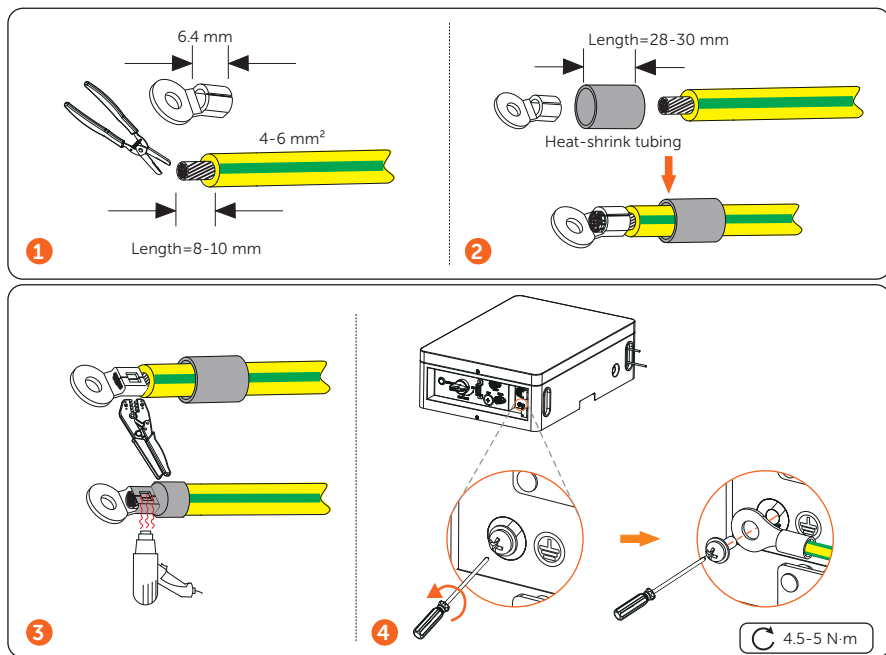
Step 8: Place BMS



Installation steps with Series Box

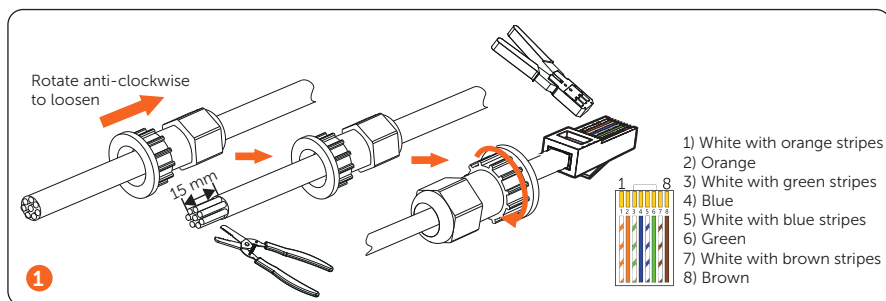


## Current Terminal Connection



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

## Communication Connection (connecting to inverter)



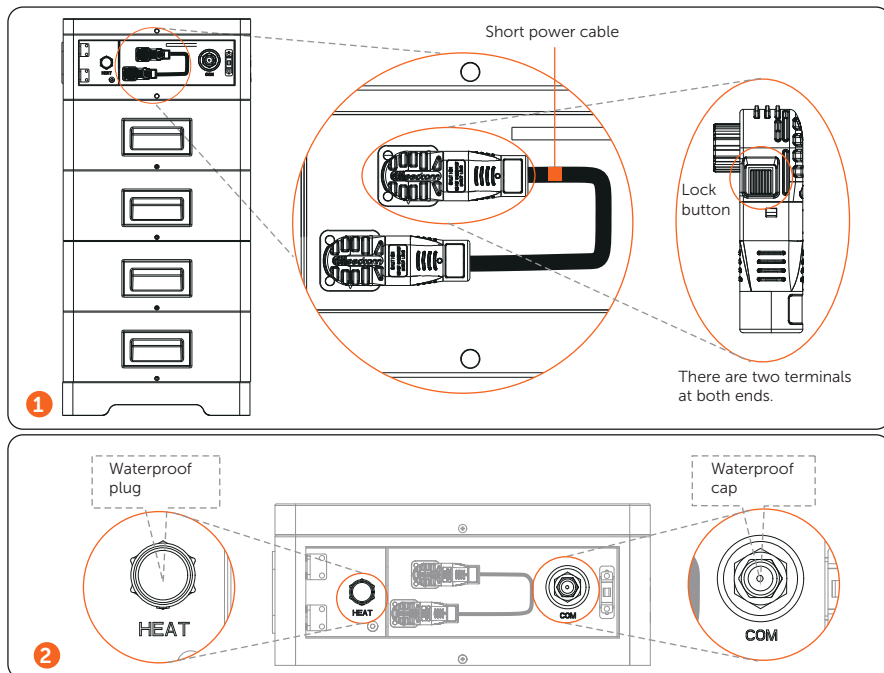
Pin	1	2	3	4	5	6	7	8
BMS	/	GND	/	BMS_H	BMS_L	/	A1	B1

## Wiring

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

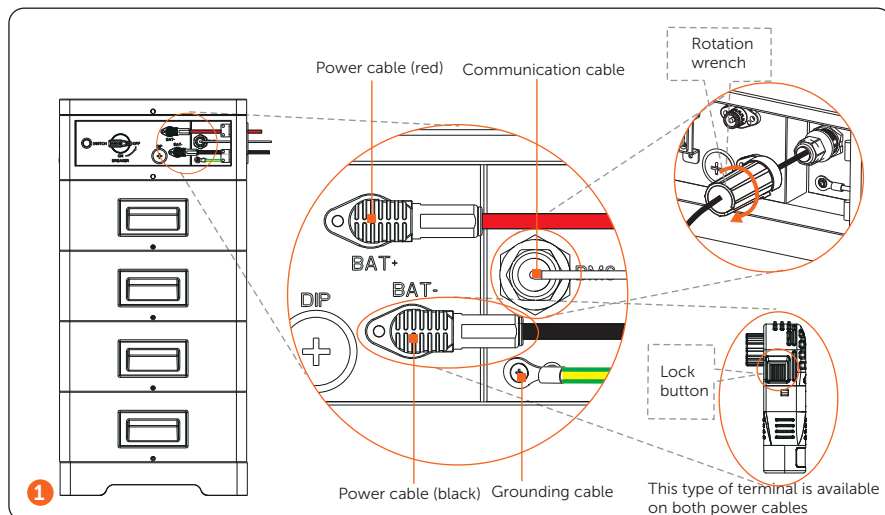
### Wiring without Series Box

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

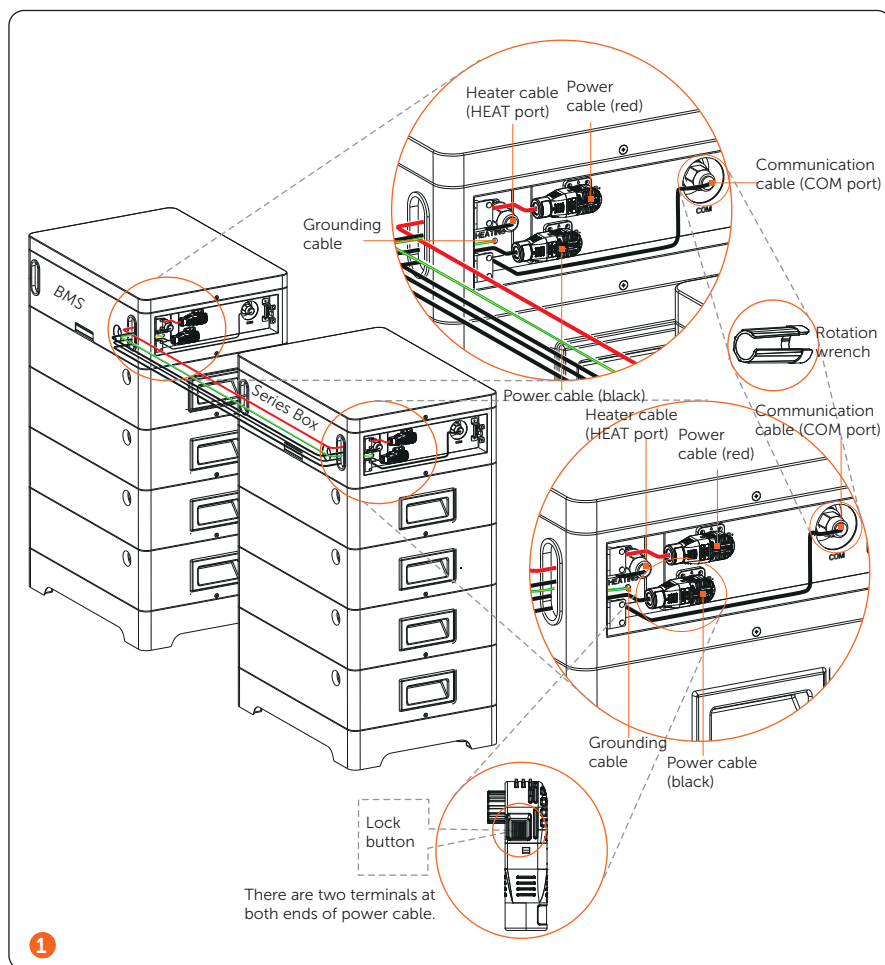


\*Note:

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.

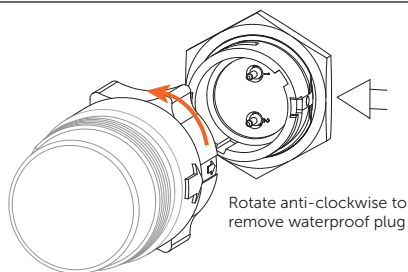
## Wiring with Series Box

### Wiring between BMS and Series Box

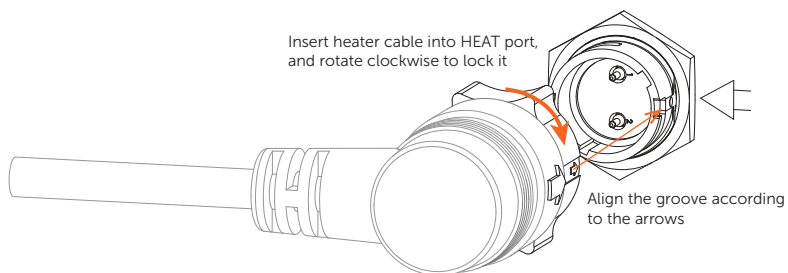


\*Note: A protective pipe is recommended to use to keep cable insulation in place and avoid potential damages.

Make sure that the heater cable is locked



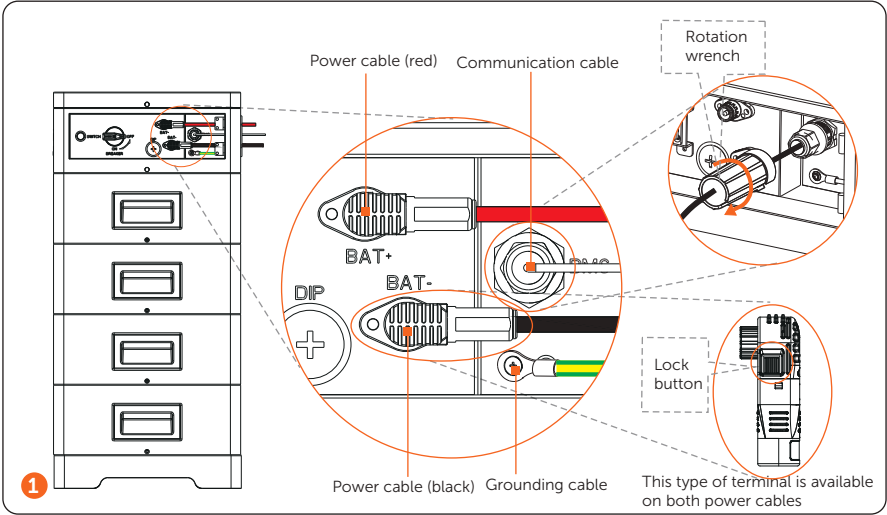
Insert heater cable into HEAT port, and rotate clockwise to lock it



2



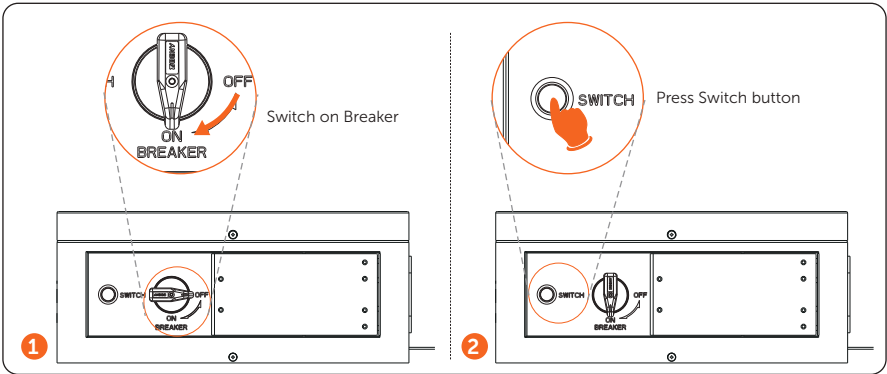
# Right side of BMS



\*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



# Contact Information



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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](http://www.solaxpower.com) to check it.





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