

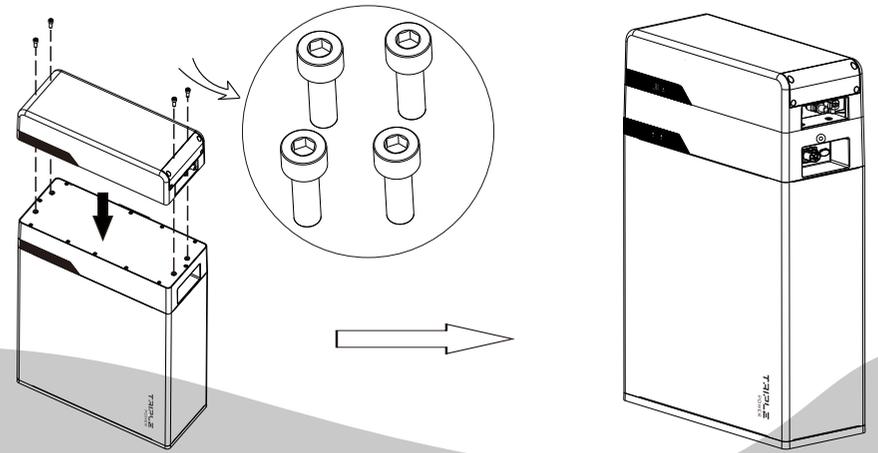
Quick Installation Guide

— Triple Power Lithium-ion Battery

III

Install BMS to Battery Module

Assemble the BMS to the battery module, and fix it with M5 screws on the point where marked as below by using L-type wrench. Please pay attention to put the same side of BMS and battery modules, which means to put the front side that has status panel at the same side.



I

Packing List (1BMS+1Battery Pack)

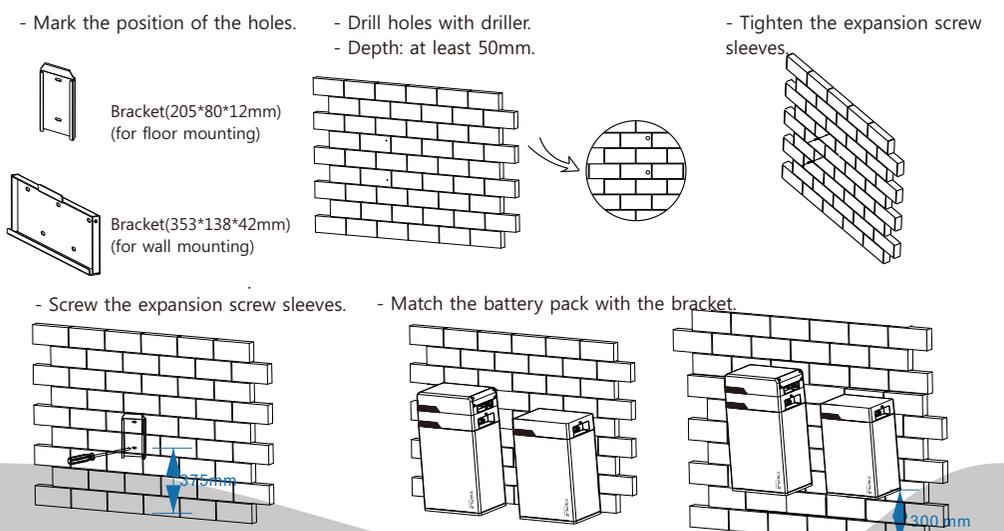
Note: The quick installation guide describes installation steps briefly. If you have any questions during the installation, please refer to the USER MANUAL which is enclosed to BMS for detailed information.

BMS				
Battery Module				

IV

Floor/Wall Mounting(alternative)

Note: 1. For 2~4 battery modules, please finish the floor mounting or wall mounting before connecting cables!
2. Please make sure that the inverter AC switch off when connecting cables!



Note: for floor mounting, the distance between the bottom of battery module and the lower hole of wall bracket is 375mm; for wall mounting, the distance between the bottom of battery module and floor shall not exceed 300mm.

II

Installation Prerequisites

Make sure that the installation location meets the following conditions:

- The building is designed to withstand earthquakes
- The location is far away from the sea, to avoid salt water and humidity
- The floor is flat and level
- There are no flammable or explosive materials nearby
- The ambience is shady and cool, keep away from heat and avoid direct sunlight.
- The temperature and humidity stays at a constant level.
- There is minimal dust and dirt in the area.
- There is no corrosive gases present, including ammonia and acid vapor.
- The ambient temperature is within the range from 0°C to 45°C, and the optimal ambient temperature is between 15°C and 30°C.

NOTE!

The Triple Power battery module is rated at IP55 and thus can be installed outdoors as well as indoors. However, if installed outdoors, do not allow the battery pack to be exposed to direct sunlight and moisture.

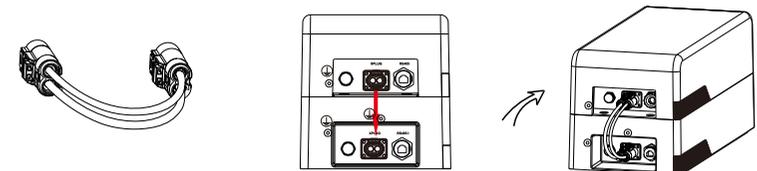
NOTE!

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 15°C to 30°C. Frequent exposure to harsh temperatures may deteriorate the performance and lifetime of the battery module.

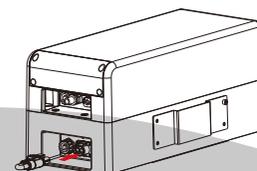
V

Power Cable Connection

- Plug either end of the power cable to XPLUG on BMS and battery module. When the metal sheet is totally inserted and a click sound is heard, that means the power cable is completely connected.



- After the battery module were correctly connected, plug the short-circuit plug at the right side of battery module to make a complete circuit.

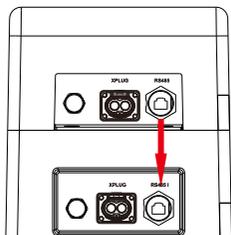


Note!

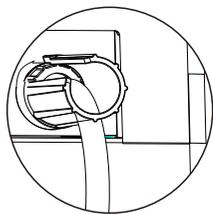
For 2~4 battery modules, connect YPLUG on the right side of battery module to XPLUG on the left side of the second battery module. The rest battery modules are connected in the same way. After all the battery modules were correctly connected, plug the short-circuit plug at the end of last battery module to make a complete circuit. Please see section 4.5.1 of User Manual for detailed connection.

VI

RS485 Connection



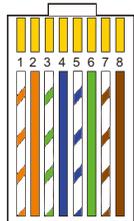
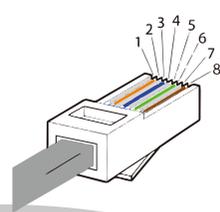
Step1: Connect the RS485 communication cable from BMS on the left side to the RS485 I communication port that is on the left side of the battery module.



Step2: There's a protect cover for the RS485 connector, unscrew the cover and plug one end of the RS485 communication cable to the RS485 connector. Tighten the plastic screw nut which is set on the cable with rotation wrench.

Note: For 2~4 packs, connect RS485 II of system on the right side to RS485 I of the follow-up battery pack.

The wire order of the communication cable is as follows:



- 1) White with an orange stripe
- 2) Orange
- 3) White with a green stripe
- 4) Blue
- 5) White with a blue stripe
- 6) Green
- 7) White with a brown stripe
- 8) Brown

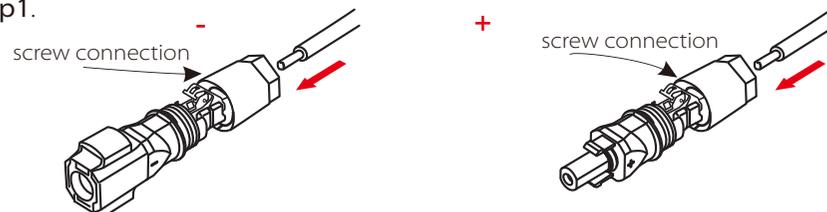
Sequence	1	2	3	4	5	6	7	8
RS485I	VCC_485	GND_485	B2	N-	P+	A2	VCC_485_2	GND_485
RS485II	VCC_485	GND_485	B2	N-	P+	A2	VCC_485_2	GND_485

IX

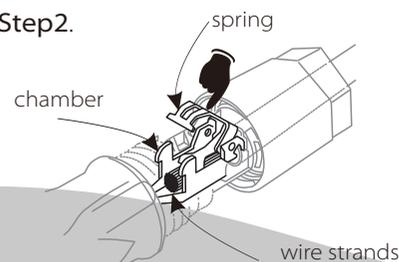
Charging Cable Connection 1

- One end of the charging cable needs to be connected manually:

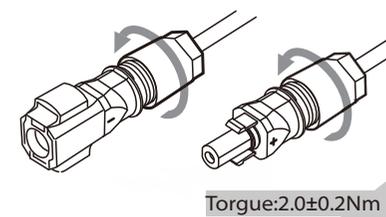
Step1.



Step2.

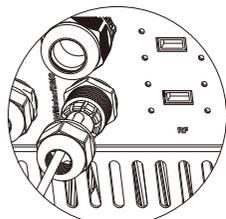


Step 3.

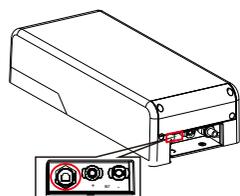


VII

CAN Connection



Step1: Turn off the Inverter, insert one end of the CAN communication cable to the BMS port on the Inverter. Assemble the cable gland and screw the cable nut.



Step2: Connect the other end of CAN communication cable to the CAN connector which is marked in red. Tighten the cover which is set on the cable with rotation wrench.

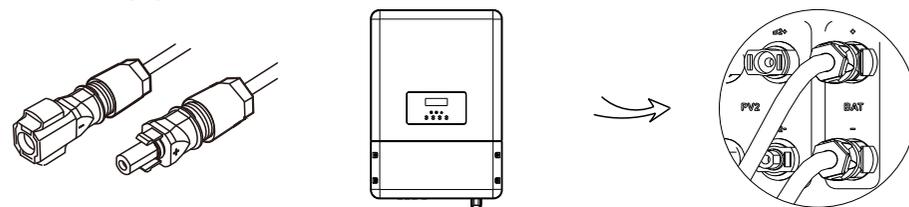
The wire order of the communication cable is the same as RS485 communication cable

Sequence	1	2	3	4	5	6	7	8
CAN	/	GND	/	CAN_H	CAN_L	/	A1	B1

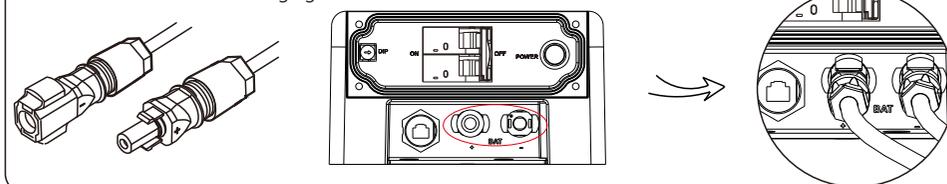
X

Charging Cable Connection 2

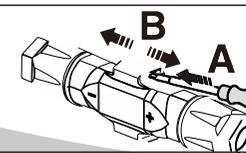
- Insert the charging cable into the inverter as below:



- Insert the other end of charging cable into the BMS as below:



- To dismantle the charging cable, please operate it with slotted screwdriver as shown in the figure. Please DO NOT unplug them directly with brute force!



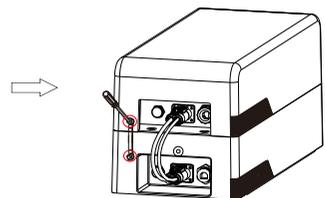
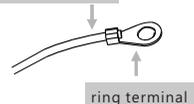
VIII

Ground Connection

For one battery module:

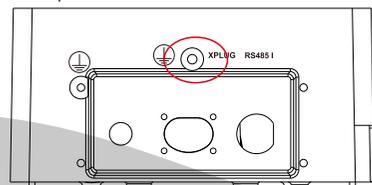
Unscrew the ground terminal with hexagon wrench on BMS and battery module at either side of the ground port as marked at the following figure. Connect the ground wire from BMS to battery module.

Cable size: 10AWG.

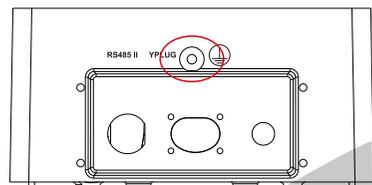


For 2~4 battery modules:

The GND connection between BMS and battery module is the same as described above. The terminal point for GND connection between battery modules shall be the one that marked as below:



Left side of battery module



Right side of battery module

XI

Commissioning

If all the battery packs are installed, follow these steps to put it in operation.

1. Remove the cover board of BMS;
2. Rotate the DIP to corresponding number with small tool according to the number of battery module(s) that has(have) been installed;
3. Move the breaker to the ON position;
4. Press the POWER button to turn on the T-BAT system;
5. Reinstall the cover board to BMS;
6. Power on the Inverter.

DIP Configuration:

- 0- Matching one battery pack (default)
- 1- Matching two battery packs
- 2- Matching three battery packs
- 3- Matching four battery packs

