

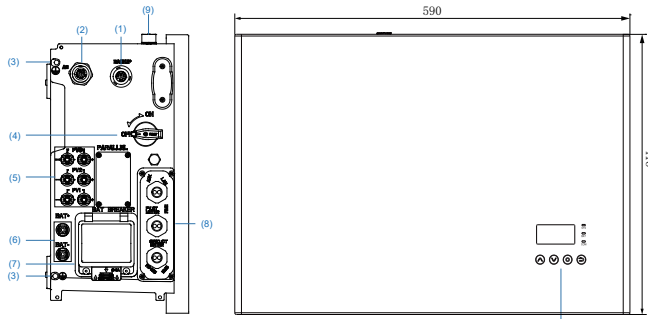
QUICK INSTALLATION GUIDE

Three - Phase Energy storage inverter 4kW / 5kW / 6kW / 8kW / 10kW



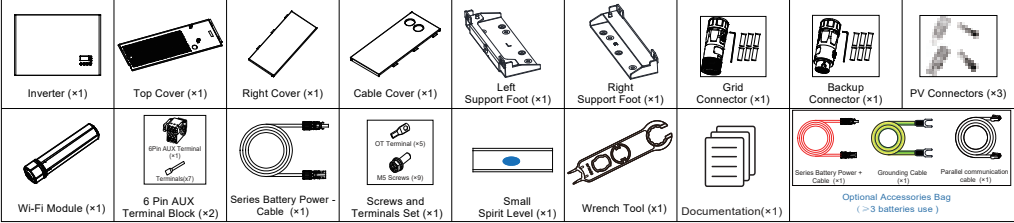
01 Product Overview

- (1) Backup Connector
- (2) Grid Connector
- (3) Grounding Point
- (4) PV Switch
- (5) PV Connectors
- (6) BAT + Connector / BAT - Connector
- (7) Battery Circuit Breaker
- (8) Communication Ports
- (9) Wi-Fi Port
- (10) LCD Display

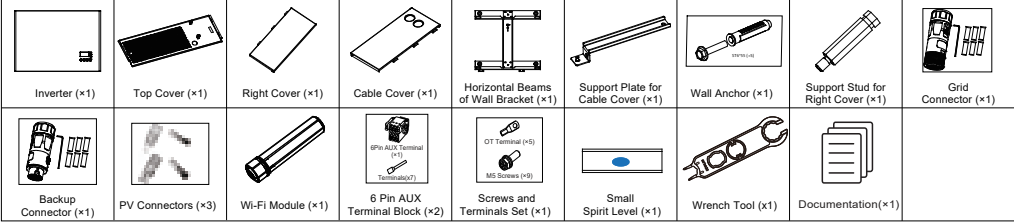


02 Accessories, Additional Materials and Installation Tools

2.1. Scope of Delivery for Inverter Installation



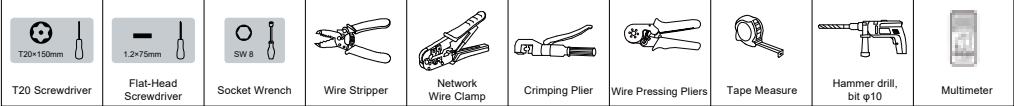
2.2. Scope of Delivery for Wall Bracket Installation(Optional)



2.3. Additional Required Installation Materials



2.4. Installation Tools

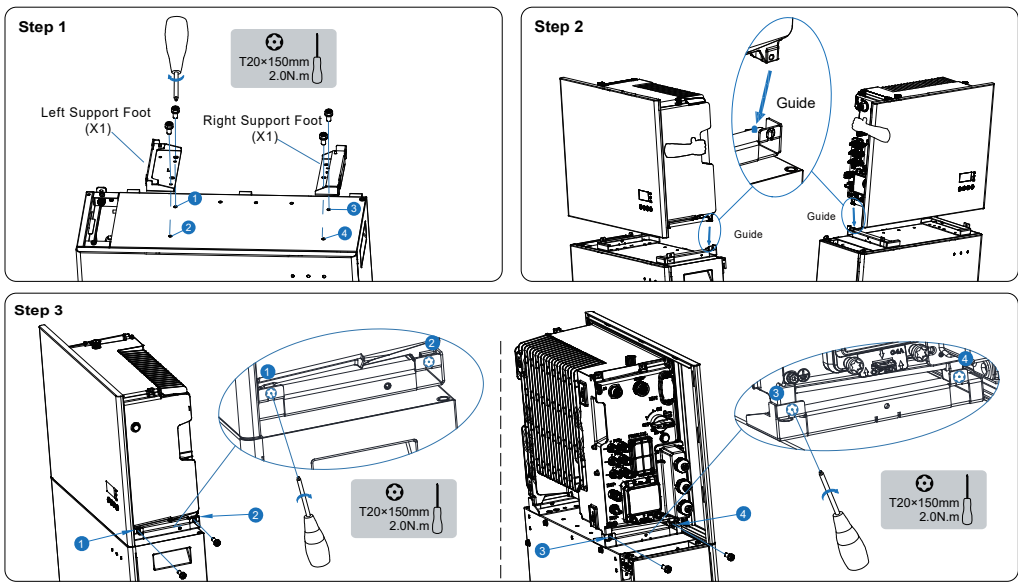


03 Mount the Inverter

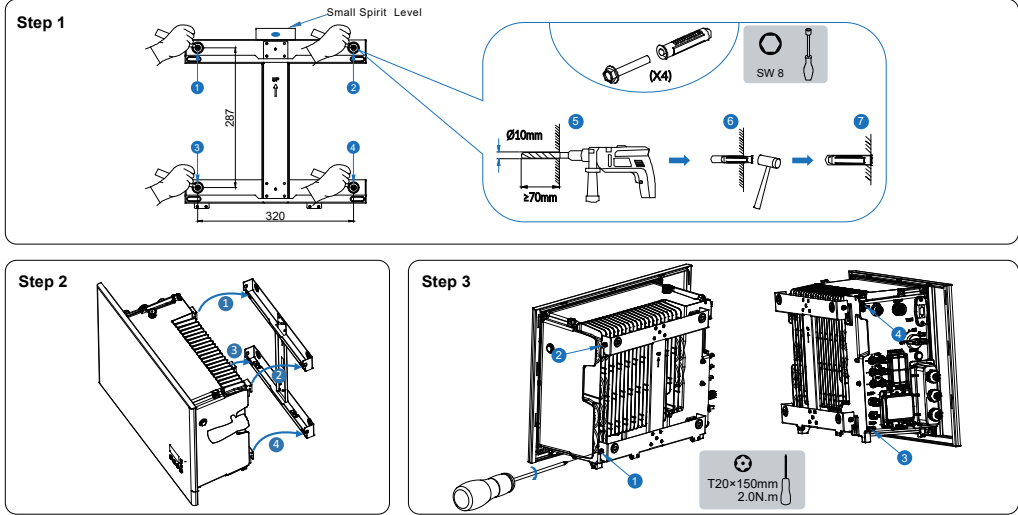
WARNING

Before installing the inverter, please ensure the battery is properly installed.

3.1. Mount the Inverter on the Battery



3.2. Mount the Inverter with Wall Bracket (Optional)



04 Electrical Connections

WARNING

Before doing electrical connection, please ensure the PV switch & AC and BAT circuit breakers are switched OFF and cannot be reactivated.

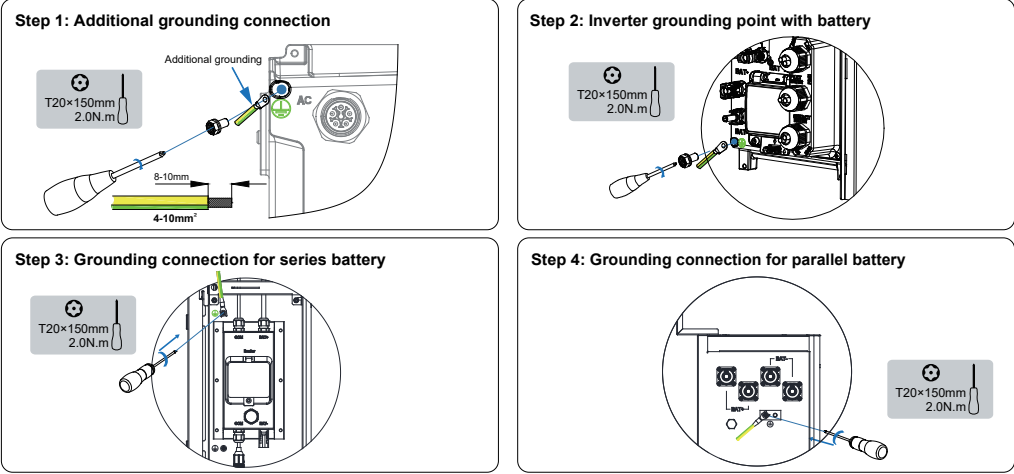
⚠ DANGER

You must protect each inverter with an individual grid&backup circuit breaker in order to ensure that the inverter can be disconnected safely.

NOTE !

Please refer to system wiring diagram for detailed system wiring.

4.1. Grounding Connection

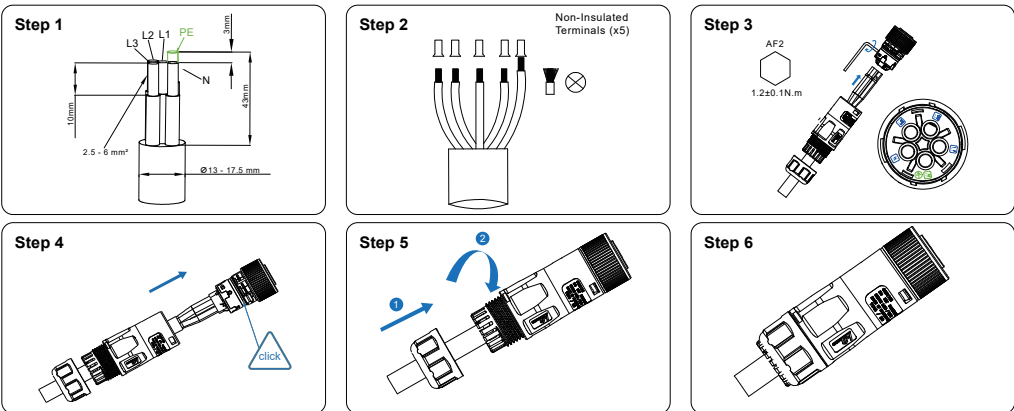


4.2. Grid&Backup Connection

AC connector recommendation for 4kW			
Description	Max. Current	Breaker Type for 4kW	Recommend cable cross section
Grid Side	11.6A	16A	2.5-6mm²
Backup Side	6.7A	16A	2.5-6mm²

AC connector recommendation for 6kW			
Description	Max. Current	Breaker Type for 6kW	Recommend cable cross section
Grid Side	17.4A	25A	4-6mm²
Backup Side	13.0A	25A	2.5-6mm²

AC connector recommendation for 10kW			
Description	Max. Current	Breaker Type for 10kW	Recommend cable cross section
Grid Side	29A	40A	6mm²
Backup Side	21.7A	32A	4-6mm²

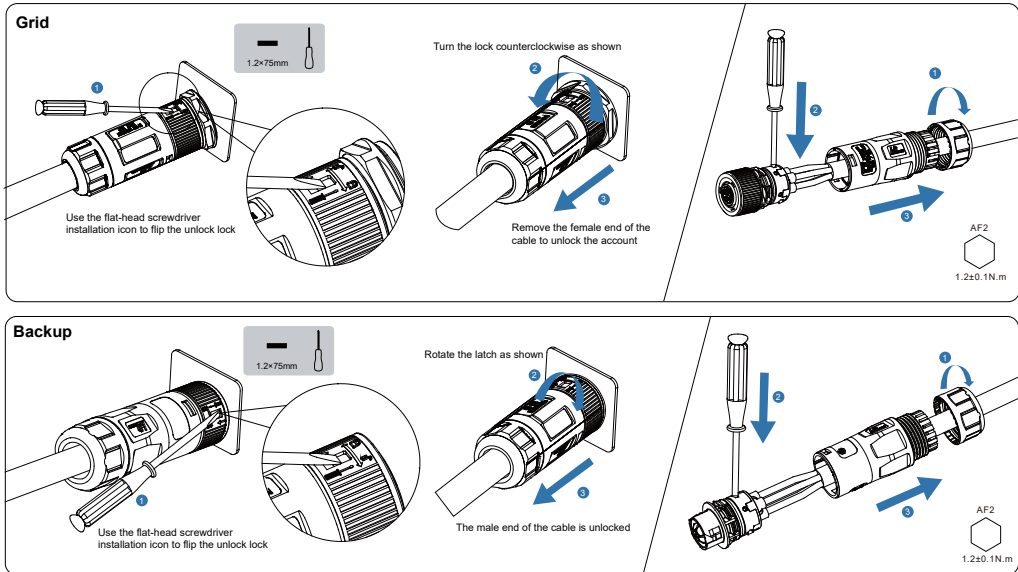


The steps for backup connection are similar as grid connection.

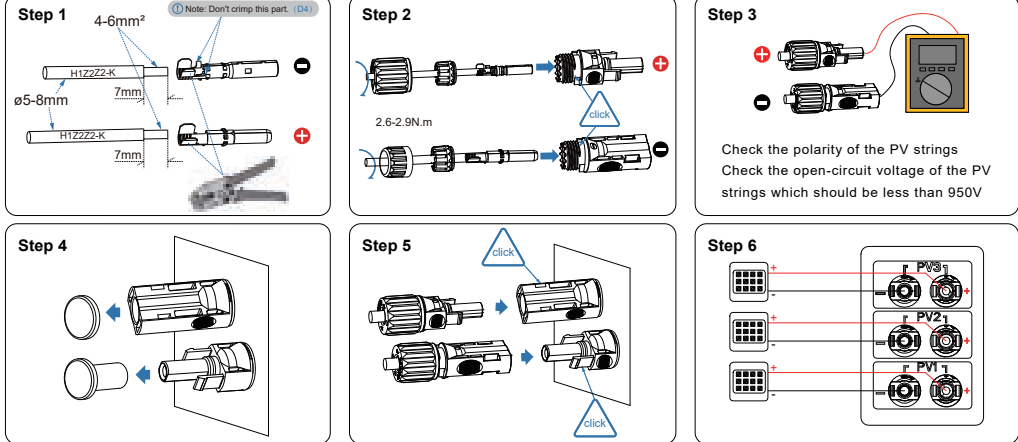
NOTE !

Do not install the grid and backup connector on the inverter.

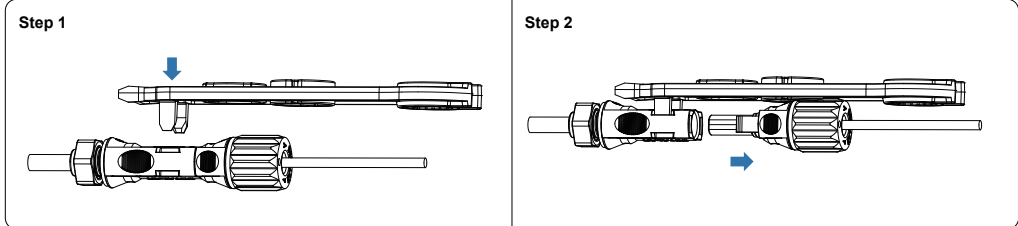
4.3. Disassemble the Grid&Backup Connector



4.4. PV Connection



4.5. Disassemble the PV Connectors



4.6. Connecting the Battery to the Inverter

DANGER

Danger to life due to short-circuiting of the battery.

Touching the short-circuit connection of the battery could result in death or lethal injuries caused by electric shock and massive energy release.

- Switch off the battery breaker which is located on the lower left of the inverter;
- Switch off the battery breaker of the battery;
- Connect both ends of one battery power cable completely before connecting the next power, cable to avoid short-circuit of the battery power positive and negative cables.

NOTE !
please use 10mm² power cable provided by the manufacturer to connect between the inverter and battery ,or between the batteries.

BAT connection for inverter and series battery

BAT connection for inverter and parallel battery

Disassemble the BAT Connectors

Step 1

Step 2

05 Communication Connection

5.1. AUX / LAN / DRM&RRCR / Meter / RS485 / BMS Connection

6.3. Connect the Grid&Backup Connector and Mount the Cable Cover

Step 1

NOTE : Remove the label before installation

Step 2

Step 3

07 Mount the covers of the Inverter (For Wall Bracket Installation)

- 7.1. Mount the Top Cover, The mount steps same as 6.1
- 7.2. Mount the Support Plate for Cable Cover and Support Stud for Right Cover

7.3. Mount the Right Cover

Step 1

Step 2

ITEM	No	1	2	3	4	5	6	7	8
BMS	NC	RS 485-A4	NC	CAN1_H	CAN1_L	NC	RS 485_B4	NC	
RS485	12V	DEBUG_RXD_COM	GND	RS 485_B5	RS 485_A5	NC	DEBUG_TXD_COM	NC	
METER	NC	NC	RS485_A7	NC	NC	RS 485_B7	NC	NC	
DRM	DRED 1/5	DRED 2/6	DRED 3/7	DRED 4/8	REF GEN/0	COM LOAD/I/O	NC	NC	NC
RRCR	K1	K2	K3	K4	3.3V	NC			
AUX 1	DO1_NO	DO1_COM	DO1_NC	DI_negative	DI_positive	GND			
AUX 2	DO2_NO	DO2_COM	DO2_NC	DI_negative	DI_positive	GND			

Cable cross section:
0.5 ~ 1.3 mm²
Stripping Length: 10 ~ 12 mm

5.2. Wiring the Communication Cables Between Inverter and Battery (BMS)

06 Mount the covers of the Inverter (Installed on the Battery)

6.1. Mount the Top Cover

Step 1

Step 2

Step 3

6.2. Mount the Right Cover

Step 1

Step 2

7.4. Connect the Grid&Backup Connector and Mount the Cable Cover

Step 1

NOTE : Remove the label before installation

Step 2

Step 3

08 Mount the Wi-Fi Module

09 Commissioning

WARNING

Never power on without the correct and reliable installation and electrical connection.

Follow the commissioning steps in COMMISSIONING GUIDE AND REPORT to download APP and it also include steps to download APP and register account, power on the product, configure Wi-Fi module, set system parameter and operate the system.

After completing the commissioning, please submit the commissioning report.

10 Power ON / OFF the Energy Storage System Procedure

10.1. Procedure for Powering On the System

- 1) Switch on the battery breaker which is at the lower left of the inverter.
- 2) Switch on the PV switch (if there is any) on the left side of the inverter.
- 3) Switch on the battery breakers of all batteries.
- 4) Shortly press the battery power buttons. For more than one parallel battery installed, please shortly press all power buttons within 10 seconds. (For series batteries, please skip this step)
- 5) Switch on the AC breaker between the grid port of the inverter and the grid.
- 6) Switch on the AC breaker between the backup port of the inverter and the loads.
- 7) Switch on the AC breaker (if there is any) between the PV-inverter and the grid.

10.2. Procedure for Powering Off the System

- 1) Switch off the AC breaker between the inverter and the loads.
- 2) Switch off the PV switch (if there is any) on the left side of the inverter.
- 3) Switch off the PV switch between the PV string and the inverter if there is any.
- 4) Long press the power button of each battery for 6 seconds. (For series batteries, please skip this step)
- 5) Switch off the battery breakers of all batteries.
- 6) Switch off the battery breaker which is at the lower left of the inverter.
- 7) Switch off the AC breaker between the inverter and the grid.

Please refer to the commissioning guide to commission this energy storage system!