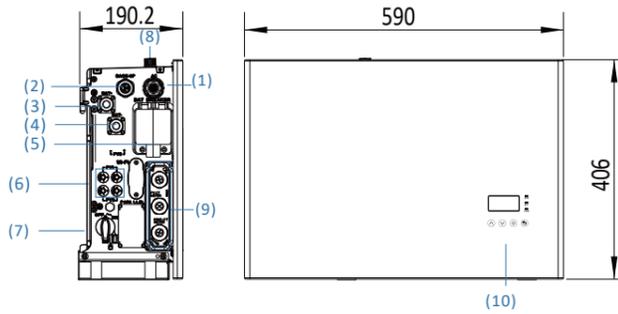




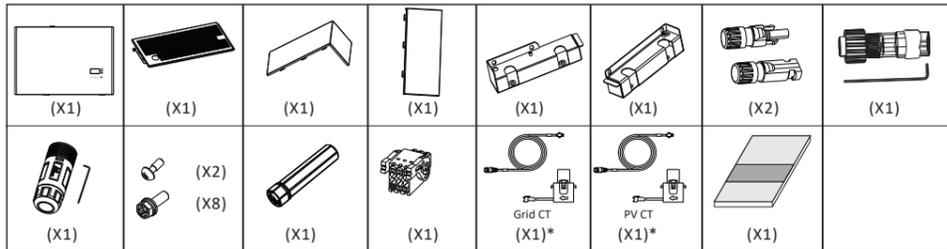
### 01 PRODUCT OVERVIEW

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



### 02 ACCESSORIES, ADDITIONAL MATERIAL AND TOOLS

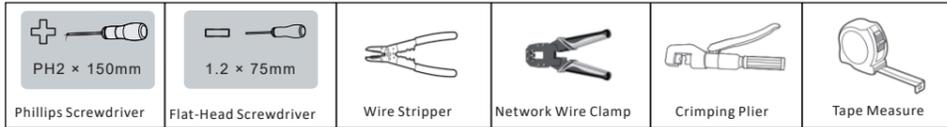
#### 2.1. SCOPE OF DELIVERY



#### 2.2. ADDITIONAL REQUIRED INSTALLATION MATERIALS



#### 2.3. INSTALLATION TOOLS

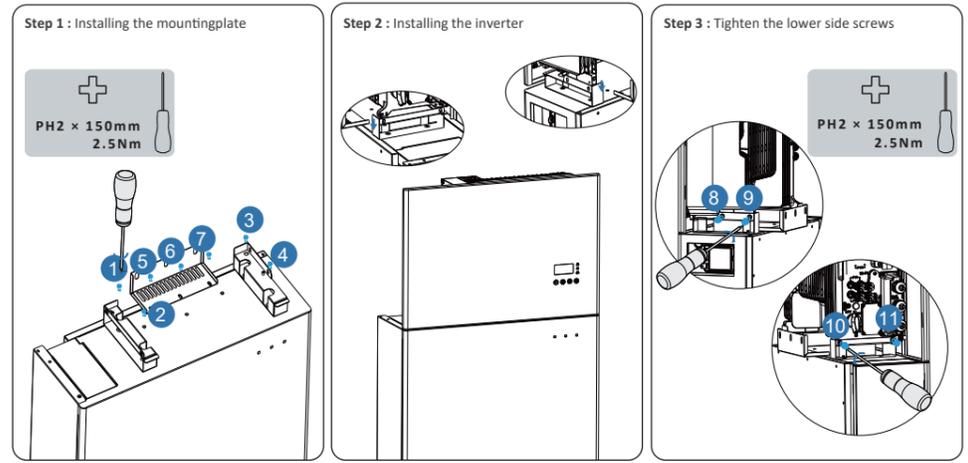


01

### 03 INSTALLING THE INVERTER

#### 3.1. BEFORE INSTALLING THE INVERTER, PLEASE ENSURE THAT THE BATTERY IS PROPERLY INSTALLED

#### 3.2. INSTALLING THE INVERTER



#### ⚠ Electric Shock Hazard

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

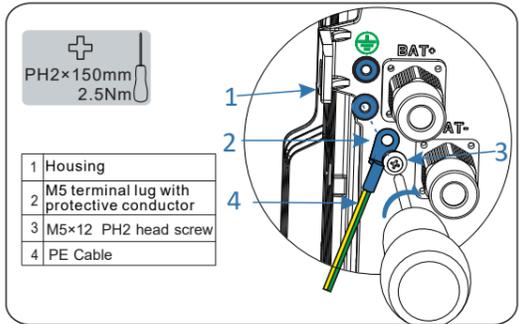
### 04 ELECTRICAL CONNECTIONS

#### 4.1. INSTALLING THE PE CABLE

#### ⚠ DANGER

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

Description	Breaker Specification
Grid Side	Max.50A
Backup Side	32A

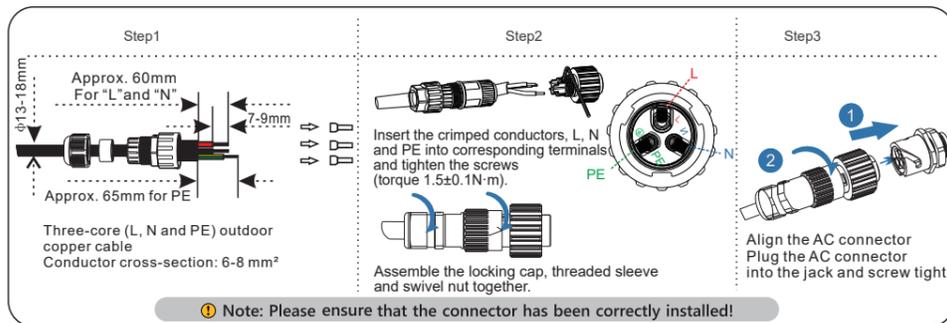


#### ⚠ WARNING:

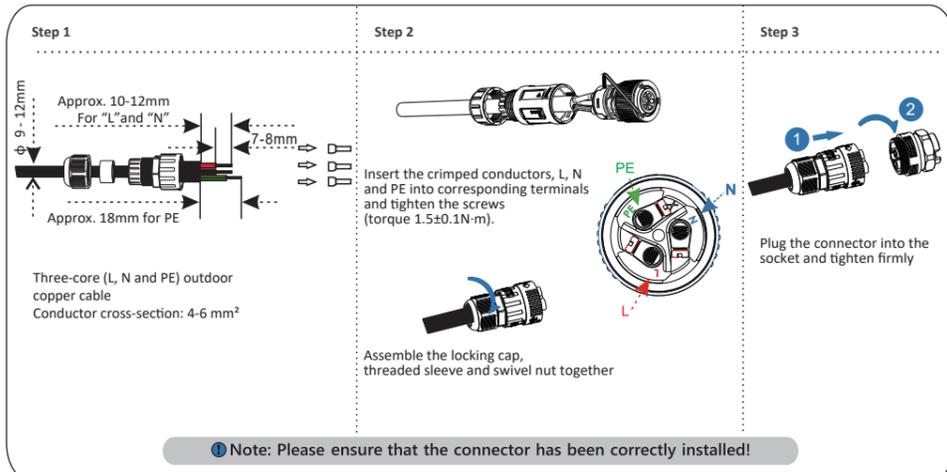
The maximum allowable grid circuit breaker is 50A at the same the copper conductor cross for grid must be 10mm². You should use "NEOVOLT" APP to do the right if the grid circuit breaker is 32A-50A, otherwise it increases the danger of the circuit breaker tripping under normal

02

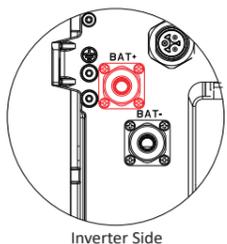
#### 4.2. CONNECTING THE GRID POWER CABLE



#### 4.3. CONNECTING THE BACKUP POWER CABLE

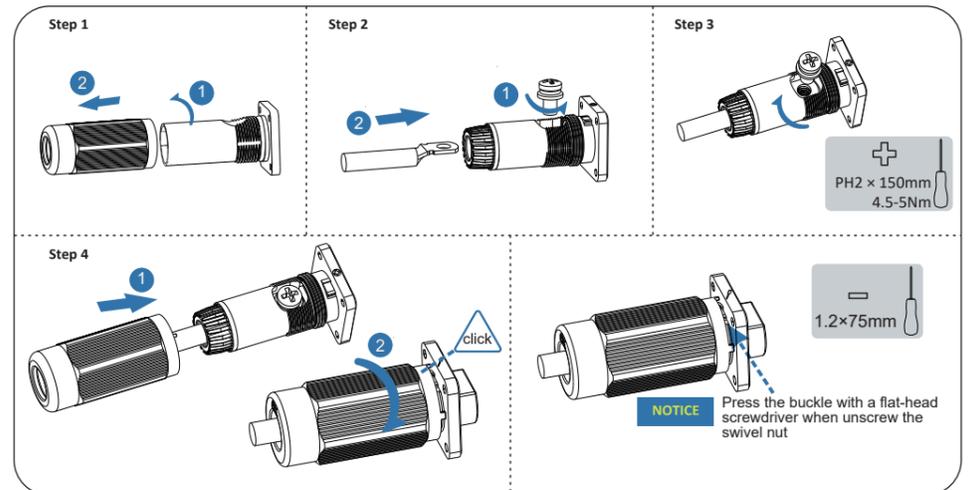


#### 4.4. CONNECTING THE BAT POWER CABLE



1. Switch off the battery breaker off the inverter and battery
2. Connect the BAT- cable first (Black) then the BAT+ cable (red)

03



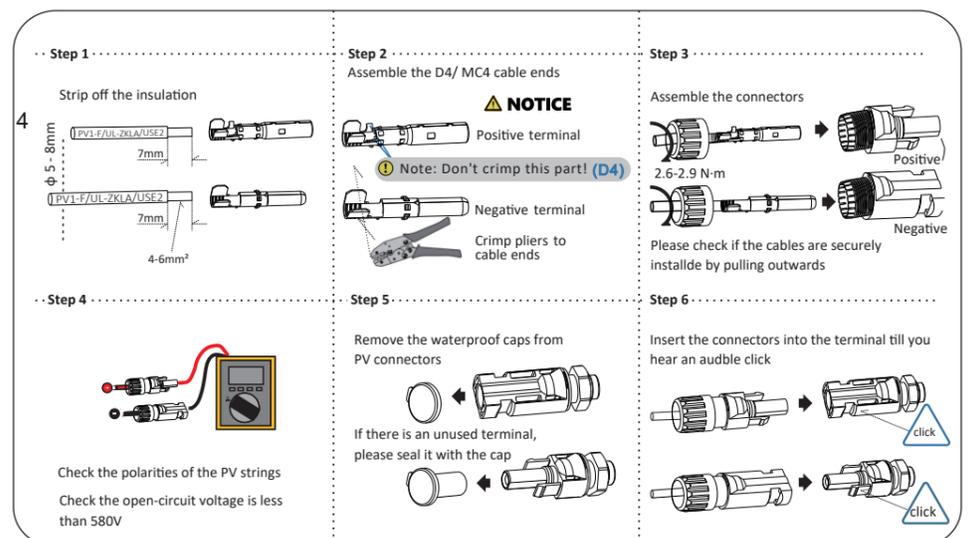
#### ⚠ DANGER

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

Touching the short-circuit connection of the battery results in death or lethal injuries due to electric shock and massive energy release.

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

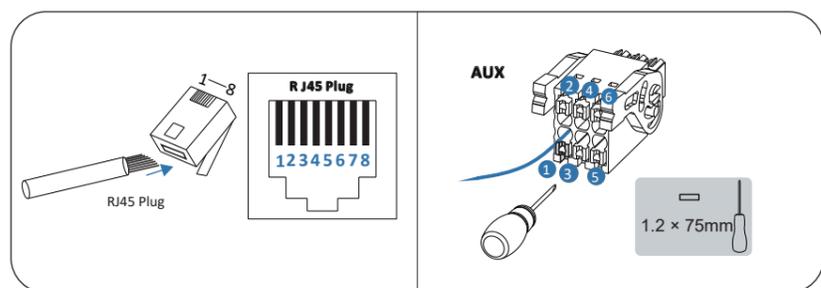
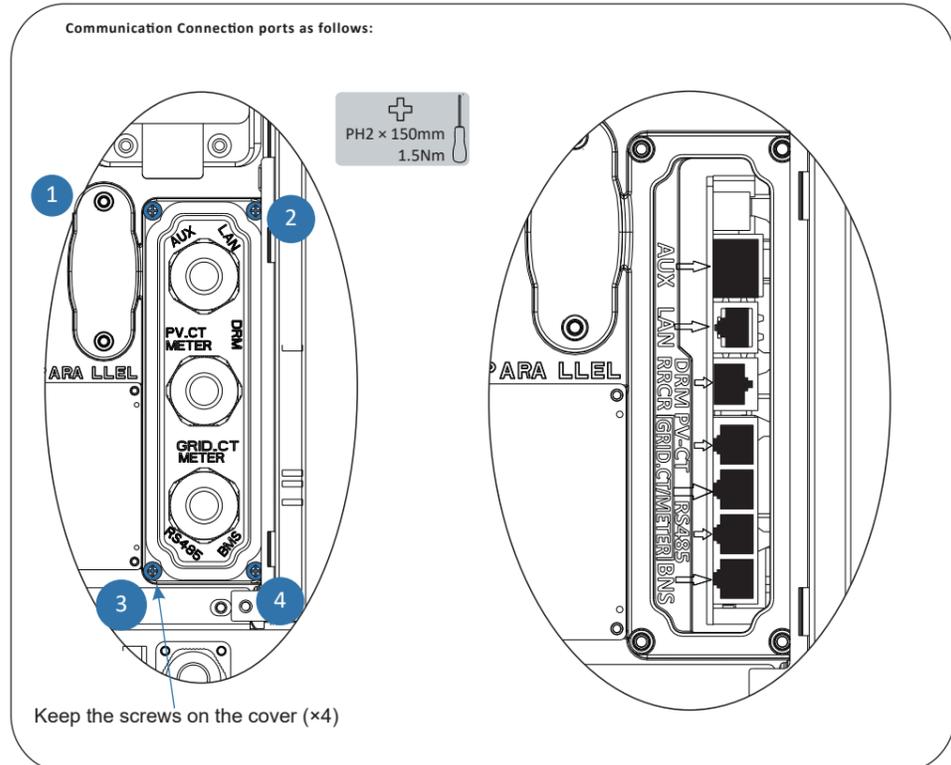
#### 4.5. CONECTING THE PV POWER CABLE



04

### 5.1. AUX / LAN/PV-CT/DRM/GRID-CT METER/RS485/BMS CONNECTION

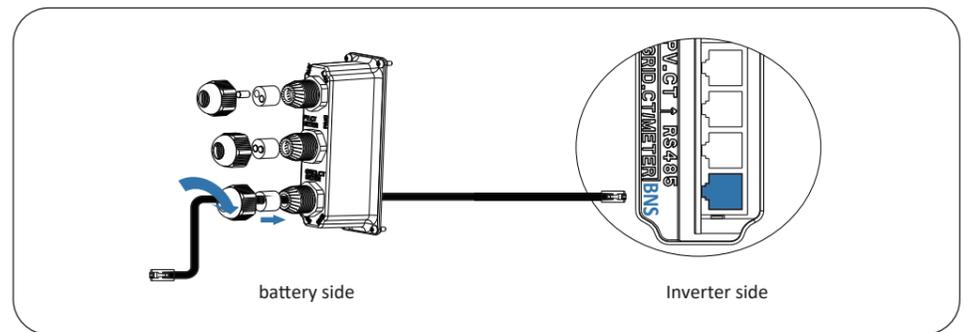
Communication Connection ports as follows:



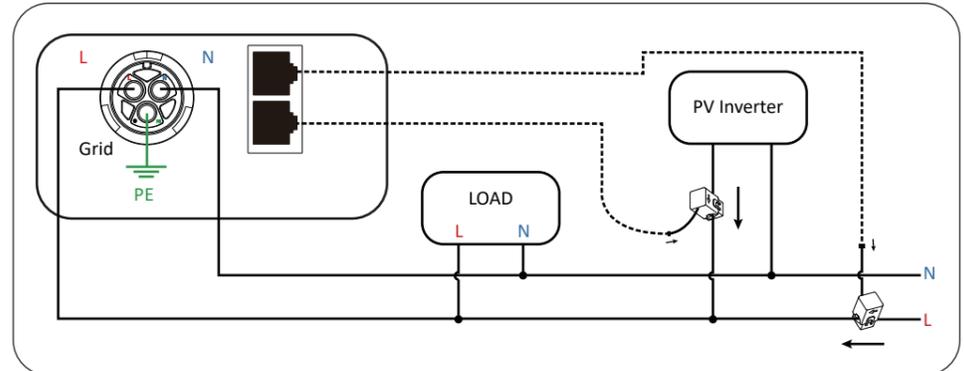
ITEM	NO	1	2	3	4	5	6	7	8
BMS		NC	RS485_A4	NC	CAN1_H	CAN1_L	NC	RS485_B4	NC
RS485		12V	NC	GND	RS485_B5	RS485_A5	NC	NC	NC
GRID_CT/METER		GRID_CT-	GRID_CT+	RS485_A7	NC	NC	RS485_B7	NC	NC
PV_CT		PV_CT-	PV_CT+	RS485_A7	NC	NC	RS485_B7	NC	NC
DRM/RRCR		DRED1/5	DRED2/6	DRED3/7	DRED4/8	REFGEN/0	COMLOAD/0		
AUX		DO1_NO	DO1_COM	DO1_NC	DI_NEGATIVE	DI_POSITIVE	GND		

05

### 5.2. WIRING THE COMMUNICATION CABLES BETWEEN INVERTER AND BATTERY (BMS)



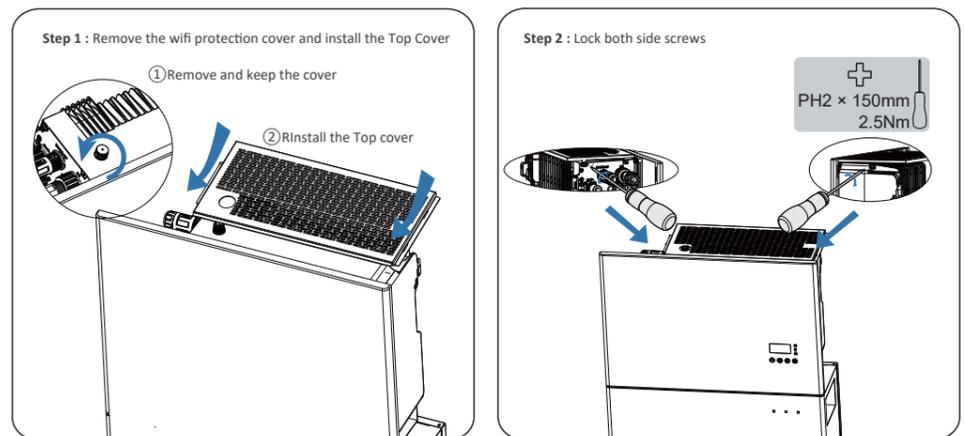
### 5.3. CT WIRING (OPTIONAL)



06

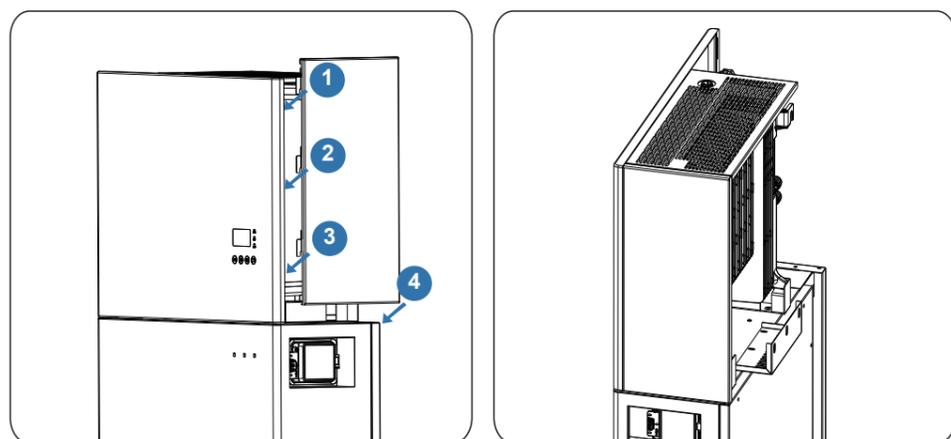
### INSTALLING THE DECORATIVE PARTS

#### 6.1. INSTALLING THE TOP COVER

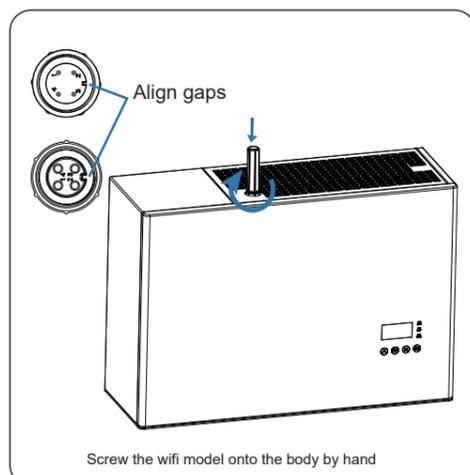


06

#### 6.2. INSTALLING THE RIGHT SIDE PLATE



#### 6.3. INSTALLING THE WI-FI MODEL



07

### COMMISSIONING



**WARNING**

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

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

After completing the commissioning, please submit the commissioning report

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08

### POWER ON / OFF THE PRODUCT PROCEDURE

#### 8.1. POWER ON THE PRODUCT PROCEDURE

- 1) Switch on the battery breaker of the batteries.
- 2) Switch on the battery breaker which is on the left side of the inverter.
- 3) Press the battery button, if there are more than one battery, the button for each battery should be pressed within 5s of previous.
- 4) Switch on the breaker between the grid port of the inverter and the grid.
- 5) Switch on the AC breaker between the backup port of the inverter and the loads.
- 6) Switch on the PV switch on the left side of the inverter.
- 7) Switch on the PV switch between the external PV-inverter and the grid if there is any.

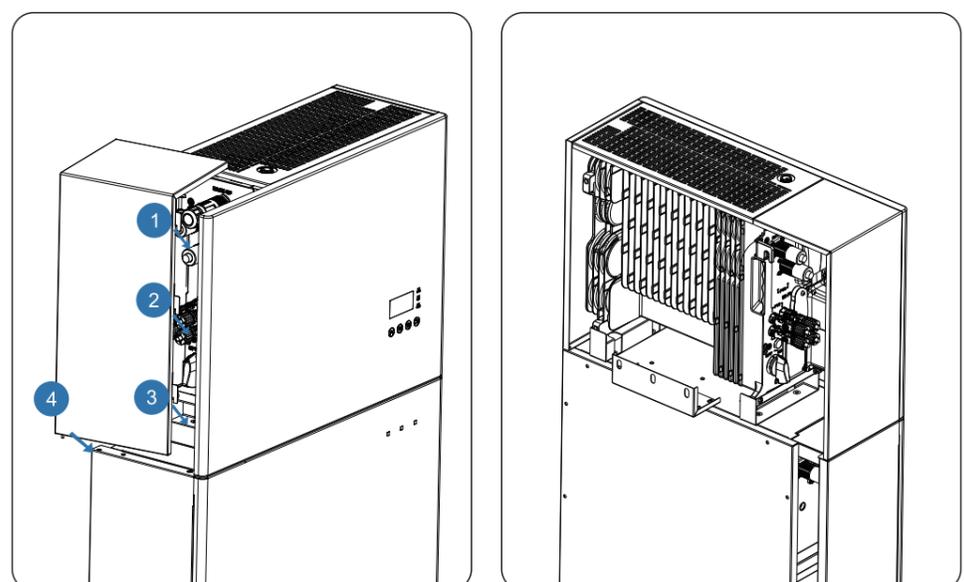
#### 8.2. POWER OFF THE PRODUCT PROCEDURE

- 1) Switch off the AC breaker between the backup port of the inverter and the loads.
- 2) Switch off the PV switch is on the left side of the inverter.
- 3) Switch off the PV switch between the external PV-inverter and the grid if there is any.
- 4) Long press the power button of battery pack for 6 seconds, then switch off the battery breaker of power button.
- 5) Switch off the battery breaker which is on the left side of the inverter.
- 6) Switch off the AC breaker between the grid port of the inverter and the grid.

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### INSTALLING THE CABLE COVER

Make sure all the wiring are finished and the energy storage system is working normally and then install the cable cover on the left side of the inverter.



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

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