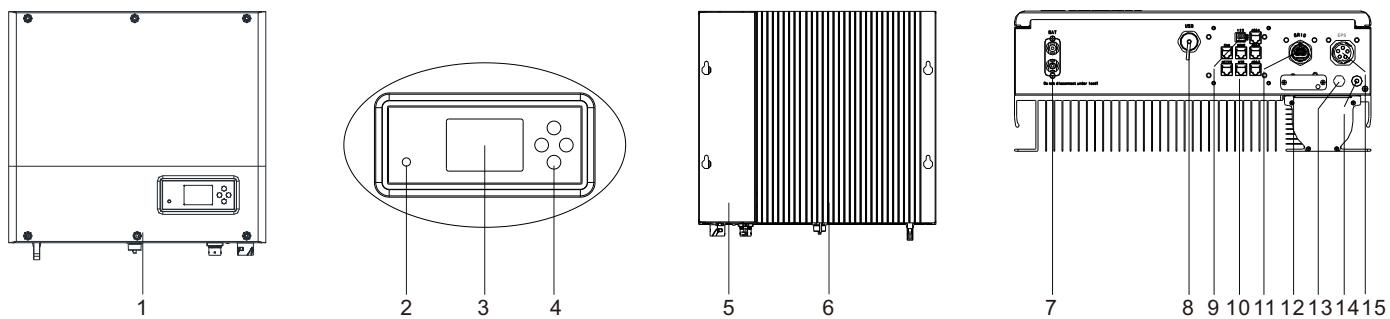


1. Overview



(1) Front panel (2) Dual-color LED (3) LCD screen (4) Push button (5) Inductor placing area
 (6) Heat sink (7) Battery connector (8) USB port (9) Dry contact port (10) NC (not connected)
 (11) AC grid connector (12) RSD (rapid shutdown device) (13) Ventilation valve (14) Grounding screw (15) EPS output connector

Note:

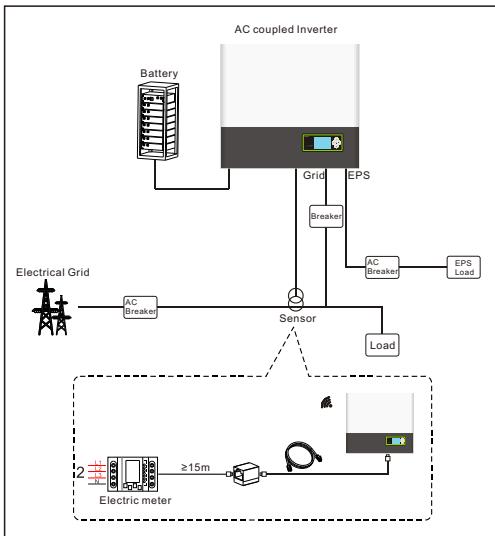
1. Only three-phase meter supports current direction detection.
 2. Pin definition of the RJ45 connector is described later in this guide.

Note:

- 1. The information in this document is subject to change without notice due to product upgrades or customer feedback. All information and suggestions in this document do not constitute a warranty of any kind, express or implied. Growatt reserves all rights for final explanation.
 2. This document is for quick installation guidance only. For details, please refer to the User Manual.
 3. Machine damage caused by failure to follow the instructions is not covered under any warranty.

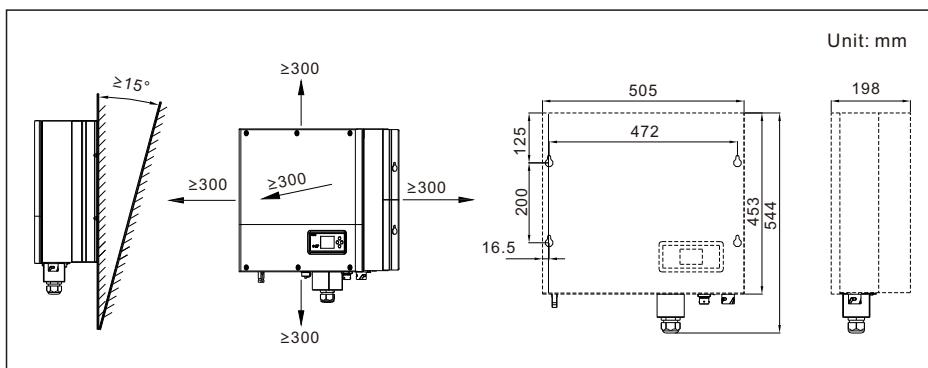
2. Installation

System overview

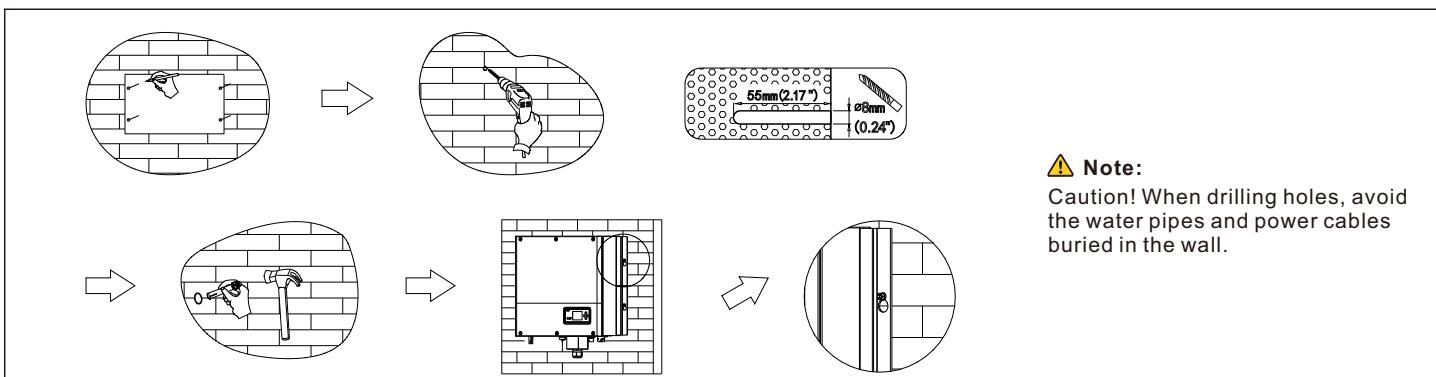


⚠ Note:
When installing the AC-coupled system, you need to consider the position of the battery and the inverter.

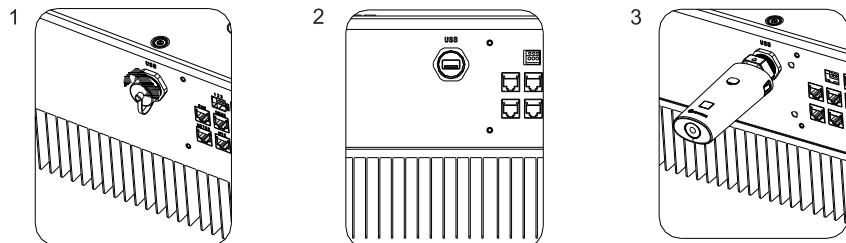
2.1 Installation requirements



2.2 Wall mounting



2.3 Installing the communication module



Follow the installation steps:
 1. Remove the USB waterproof cover.
 2. Plug in the communication module.

3. Connecting cables

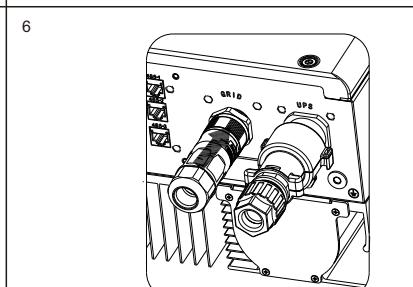
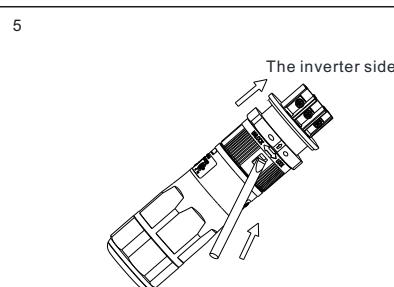
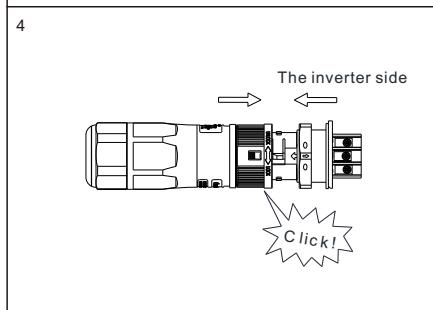
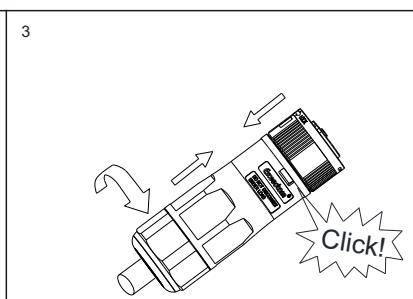
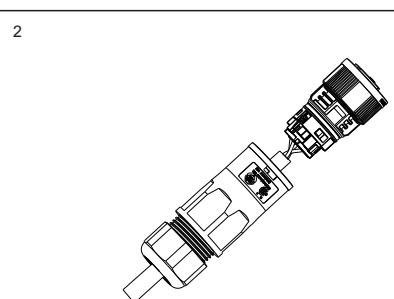
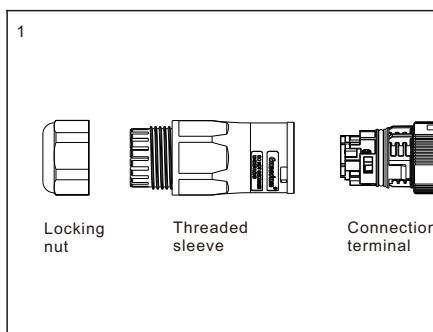
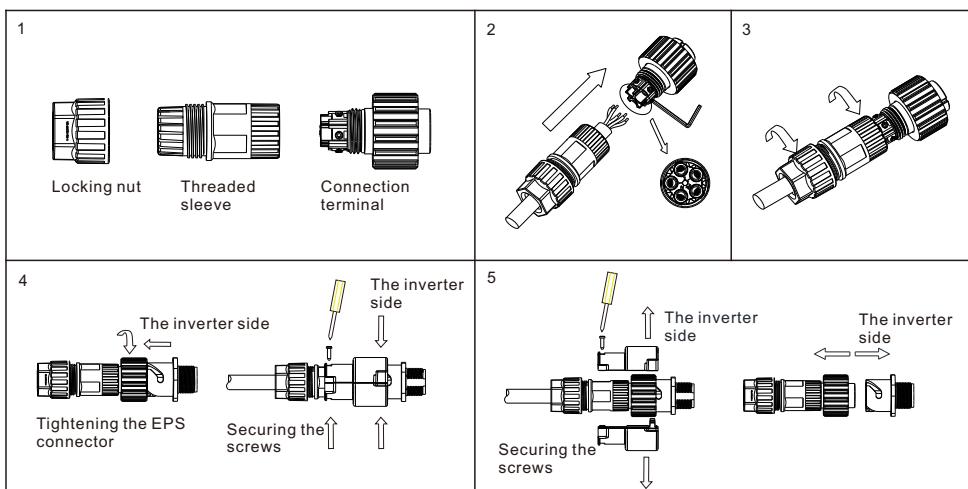
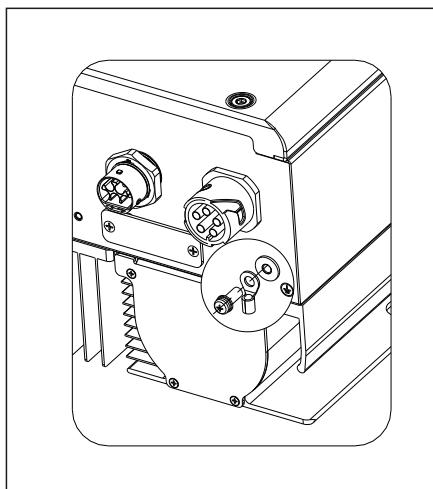
Please prepare the cables before connecting as follows.

Number	Cable name	Type	Recommend specification
1	Grounding wire	A multi-core yellow-green copper wire	Wire diameter>AWG10
2	AC output wire	Two or three different color multi-core copper wires	Wire diameter>AWG12
3	Battery input wire	Red and black multi-core copper wires	Wire diameter>AWG10
4	Communication wire	CAT5E	/

Note:
 Make sure all switches are OFF before connecting the cables. For personal safety, do not operate with power on.

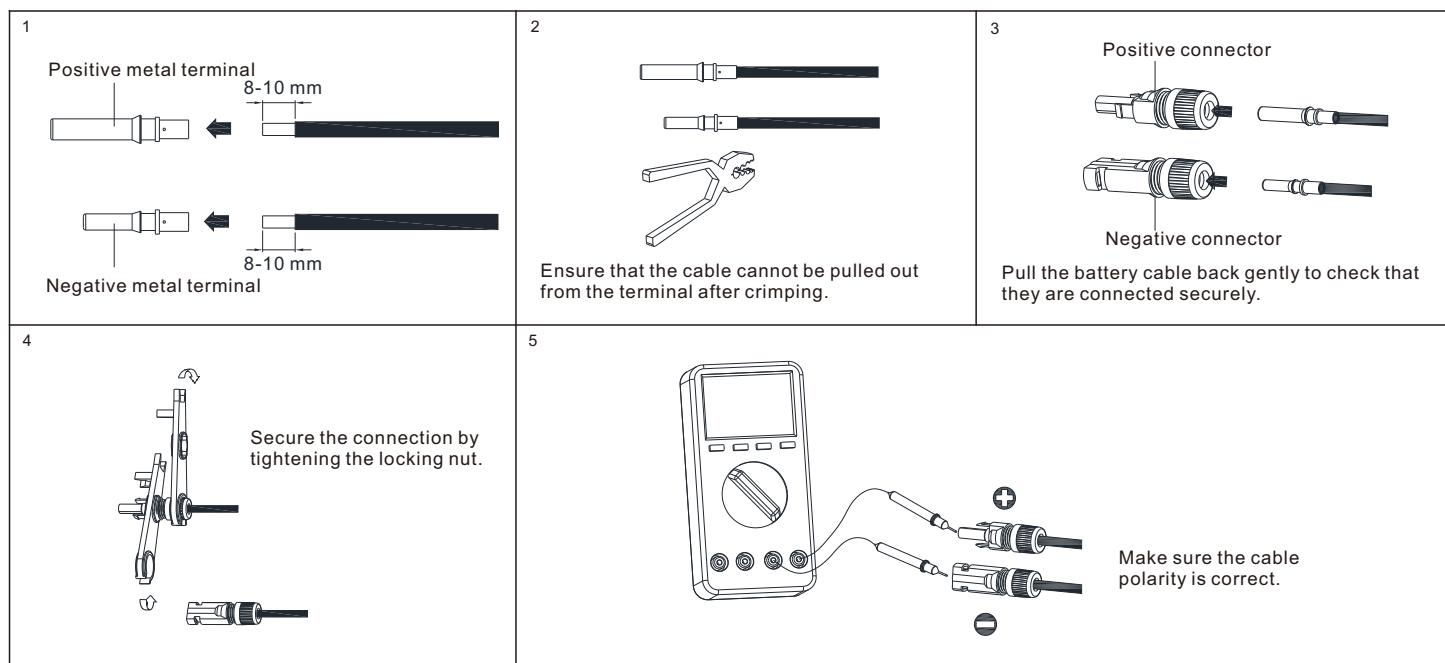
3.2 Grounding

3.2 AC GRID and EPS output connection

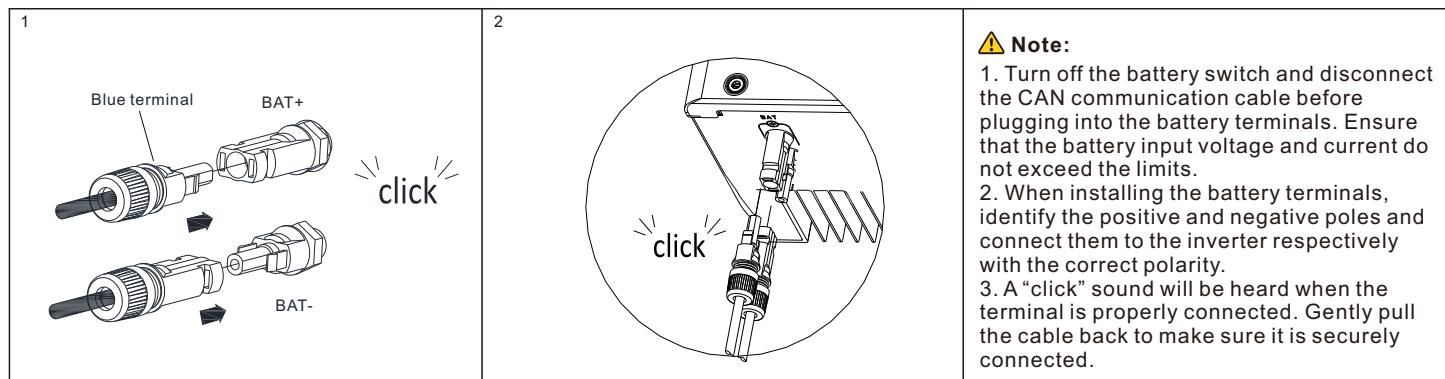


3.3 DC connection

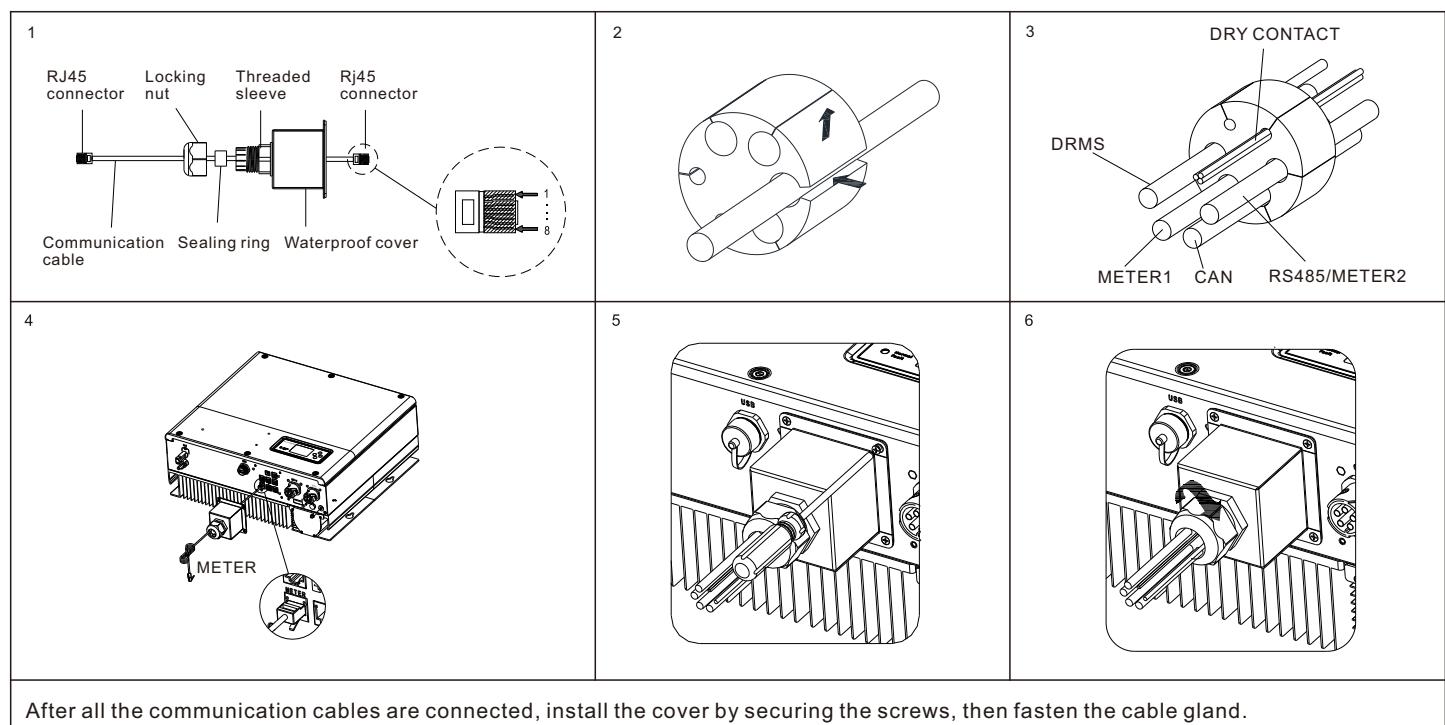
3.3.1 Assembling the battery input cables



3.3.2 Plugging into the battery terminals



3.3.3 Installing the communication cables



4. Post-installation check

Number	Checking items	Number	Checking items
1	The AC-coupled inverter is installed correctly and firmly.	2	ShineWiFi-X or ShineLink or GPRS is installed correctly and firmly.
3	Cable routing is proper and meets all requirements. No damaged or skin-scratched cable is used.	4	The grounding cable is reliably connected.
5	All switches are off.	6	All wires are correctly and securely connected.
7	Cable ties are neatly cut without sharp burs.	8	All vacant ports are sealed and protected.
9	Post-installation cleanup.		

5. Powering on/off the AC-coupled inverter

⚠ Note:

Before powering on the inverter, please ensure that all the voltage and current are within the specified range. Otherwise it might cause device damage.

Proceed as follows to power on the system:

- 1.Turn on the PV switch.
- 2.Turn on the breaker between the grid and the inverter.
- 3.Turn on the battery switch.
- 4.For details about configuring the inverter, please refer to the User Manual.

You can power off the system in reverse order.

The AC-coupled inverter comes with the installation diagnosis function, please run the "DiagnosFunc" upon completing the installation.

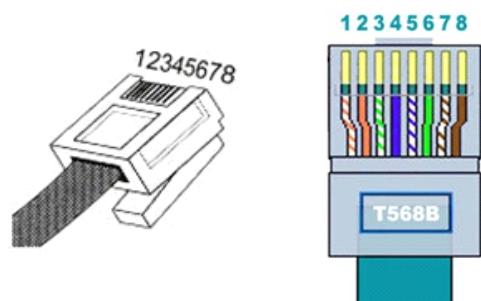
6. Status of the AC-coupled inverter

You are allowed to view more information by pressing the buttons. The following table describes functions of the buttons and the LED indicator.

Symbol	Description	Explanation	
	Push buttons	Allow you to set parameters on the screen	
	SPA status indicator	Green light on	SPA runs normally
		Red light on	Fault state
		Green light blinking	Alarm state
		Red light blinking	Software updating

7. Definition of RJ45 connector pin

No.	CAN	METER	COM	DRMS	485-1/485-2	485-3
1	/	RS485B	DRY+	DRM1/5	RS485B	RS485B
2	/	GND	/	DRM2/6	GND	GND
3	/	/	DRY-	DRM3/7	/	/
4	CANH	/	/	DRM4/8	/	/
5	CANL	RS485A	/	REF	RS485A	RS485A
6	GND	/	/	COM	/	/
7	/	/	/	/	/	/
8	WAKEUP	/	/	/	/	/



8. Suggestions on selecting the residual current device

This product is equipped with a built-in residual current detection device (RCD). Once the fault current detected exceeds the threshold, the inverter will be immediately disconnected from the utility grid. If local regulations require the installation of an external RCD between the inverter and the loads, you are advised to install a type A RCD with a rating of 30 mA. If local regulations require the installation of an external RCD between the inverter and the grid, you are advised to install a type A RCD with a rating of 300 mA.

9. Service and contact

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