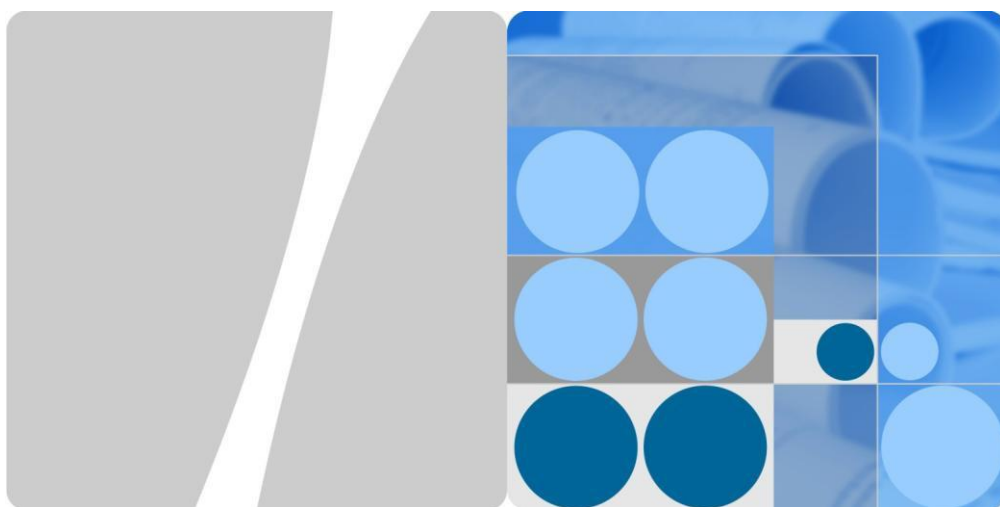




KY-ESS Series Single-Phase Inverter (3-8kW)

Quick Installation Guide

Jiangsu Koyoe Energy Technology Co.,Ltd

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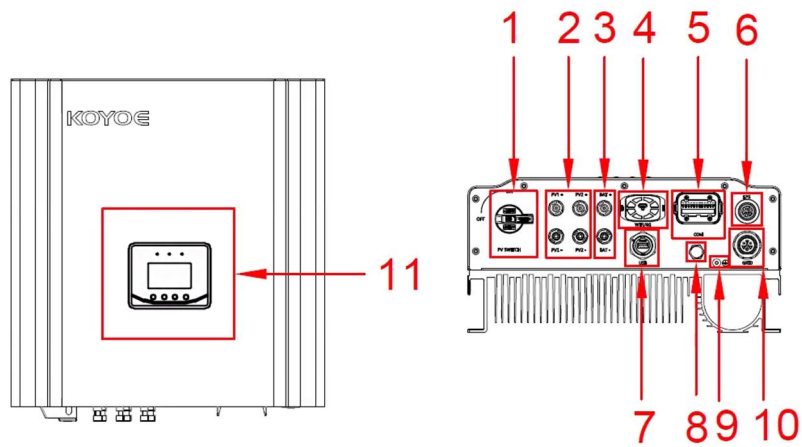
After Sales Service: service@koyoe.com

Web: www.koyoe.com

Global Support Hotline: +86 400-900-9536

1 System Installation

1.1 Introduction to Interface

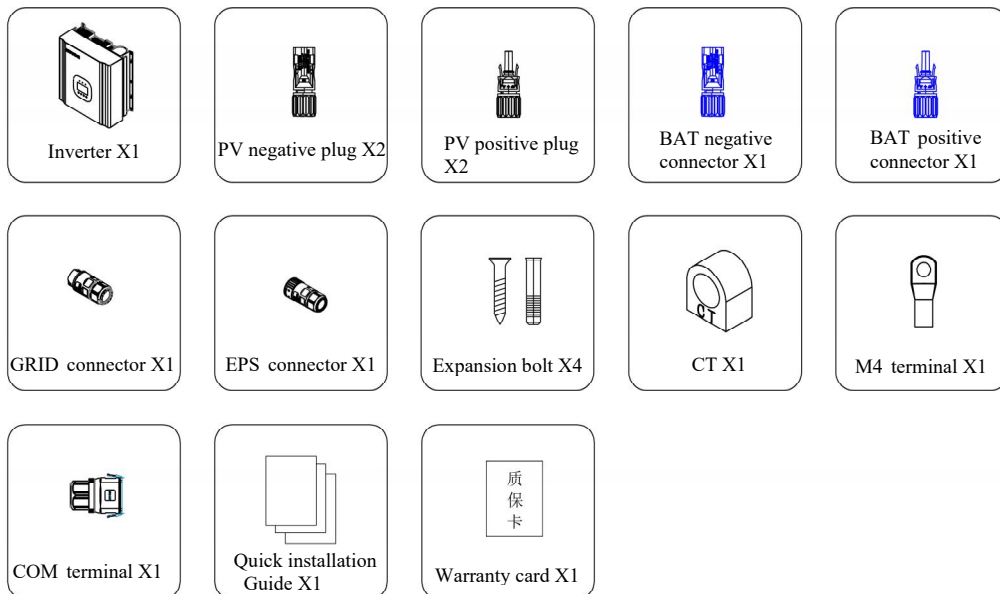


Introduction			
NO.	Interface	NO.	Interface
1	PV Switch	2	PV Interface
3	BAT Interface	4	WIFI/4G
5	COM Interface	6	EPS Interface
7	USB Interface	8	Relief Valve
9	Grounding Screw	10	GRID Interface
11	Display Panel		

1.2 Packing list

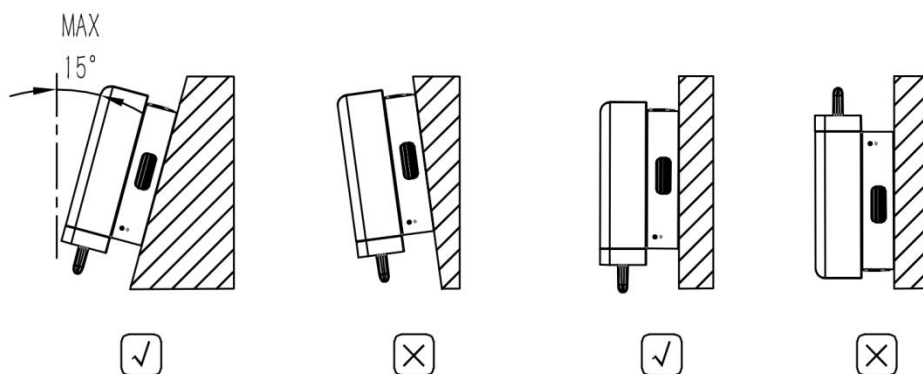
* WIFI/4G module optional.

*Packing list is for reference only, please refer to the actual packing list.



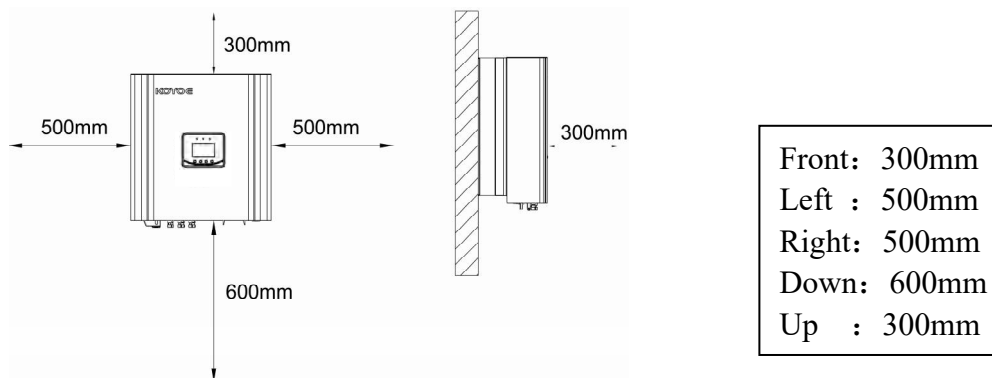
1.3 Install the Inverter

Correct device installation method

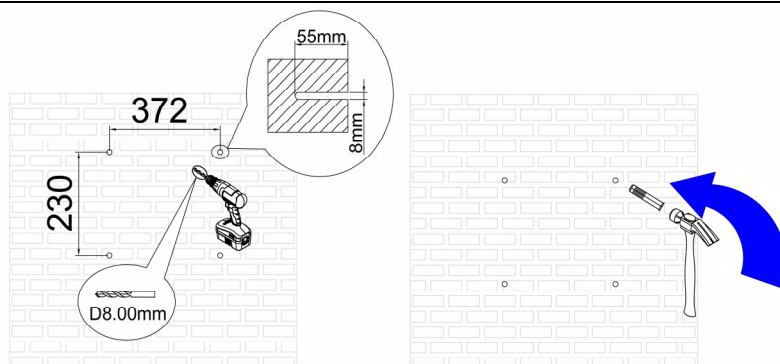


Install the inverter as follows

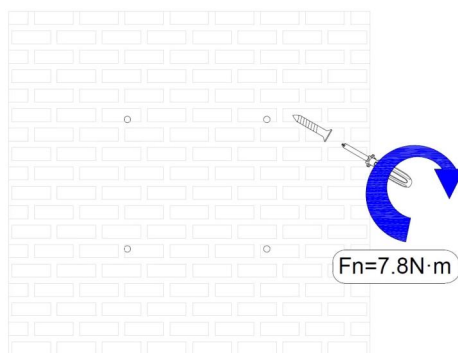
Step 1: Select the appropriate installation location



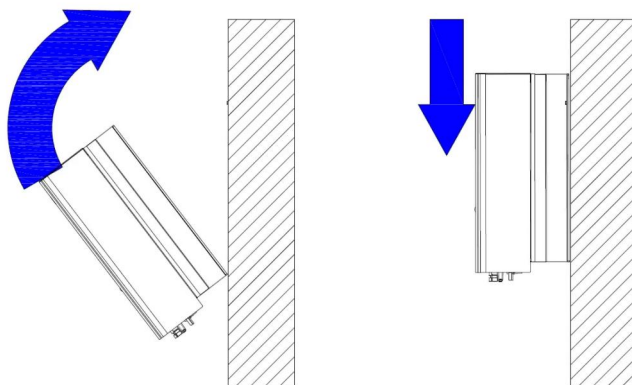
Step 2: Install expansion bolts



Step 3: Lock the expansion screw



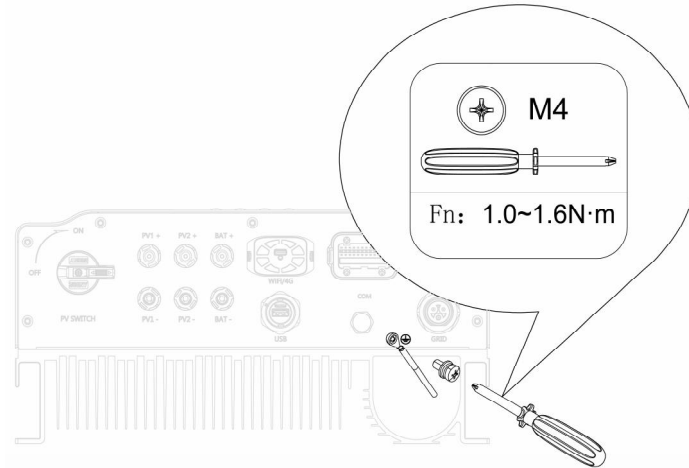
Step 4: Install the inverter



2 Electrical Installation

2.1 Ground side

Installation position of the grounding cable



Wiring Harness Making

1

$L = L1 + (1 \sim 2) \text{ mm}$
Heat shrink tube
Copper wire: $4 \text{ mm}^2 \sim 6 \text{ mm}^2$

The diagram illustrates the preparation of the copper wire. A green wire is shown with a red heat shrink tube being slid onto it. The total length of the wire with the tube is labeled as L , and the length of the tube is labeled as $L1$. The formula $L = L1 + (1 \sim 2) \text{ mm}$ indicates that the total length should be the length of the tube plus an additional 1 to 2 mm. The wire is then shown being inserted into a terminal block.

2

Push
Push

The diagram shows the heat shrink tube being pushed onto the wire. Two blue arrows labeled "Push" indicate the direction of movement.

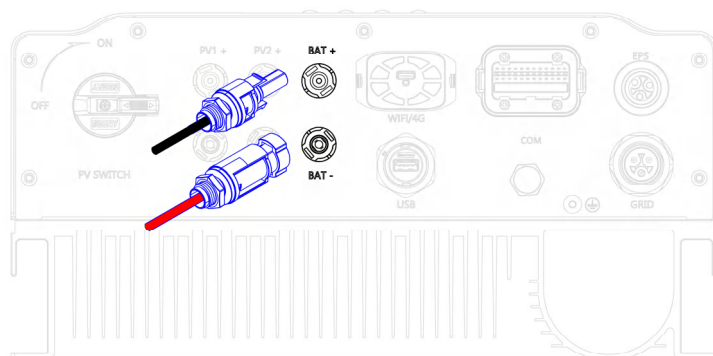
3

2
1

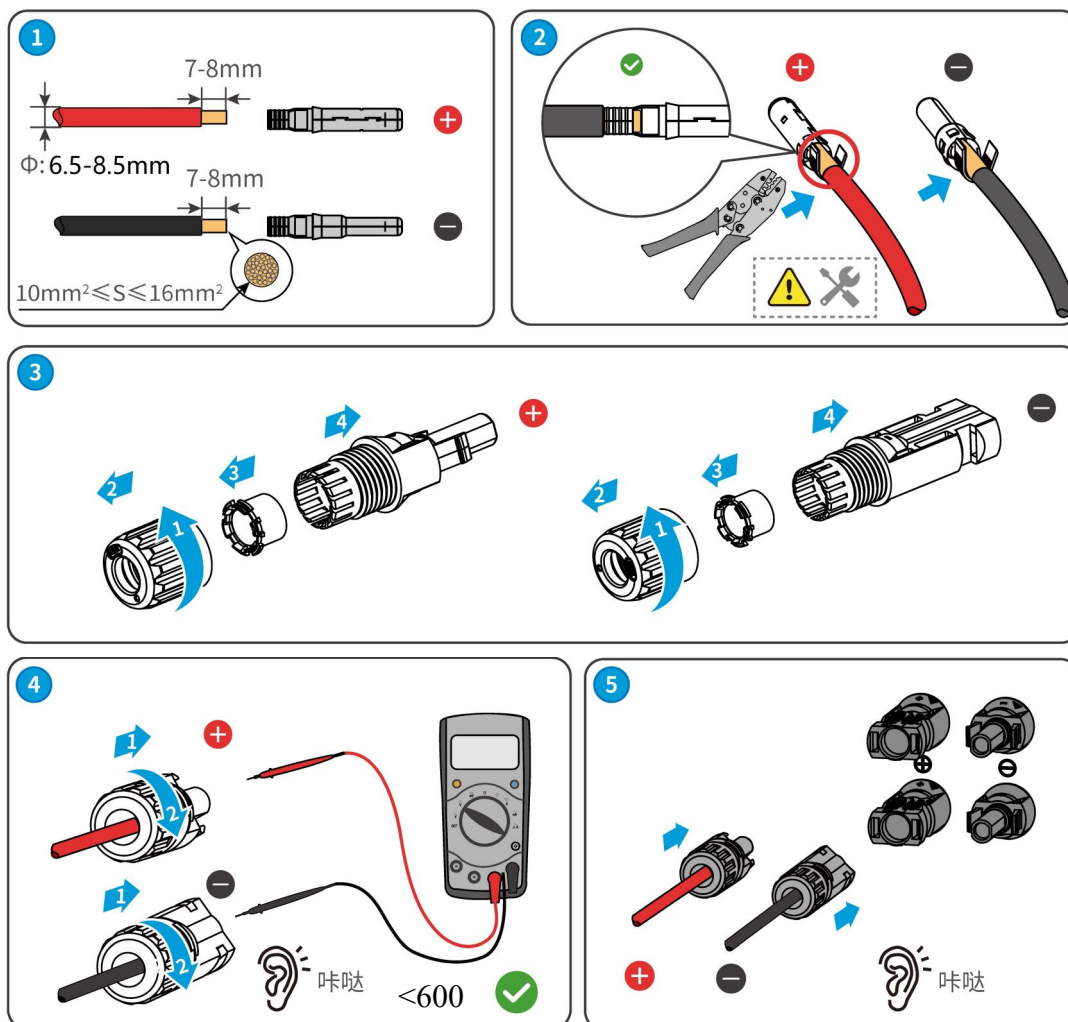
The diagram shows the heat shrink tube being shrunk onto the wire using a heat gun. The heat gun is labeled "3". The wire is labeled "1" and the heat shrink tube is labeled "2". Red wavy lines indicate the heat being applied to the tube.

2.2 Battery side

Installation position

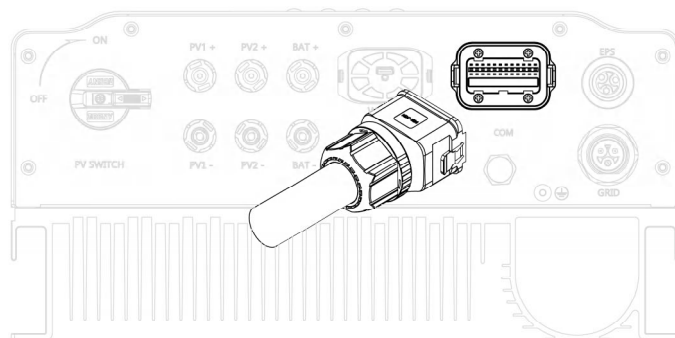


Wiring Harness Making

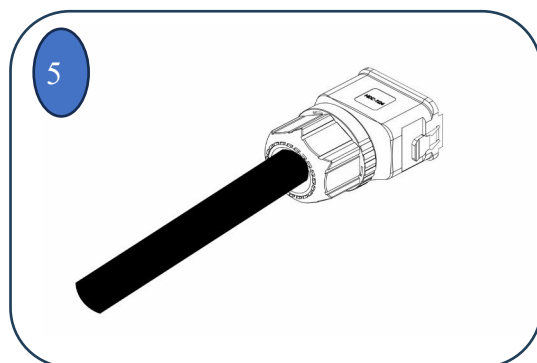
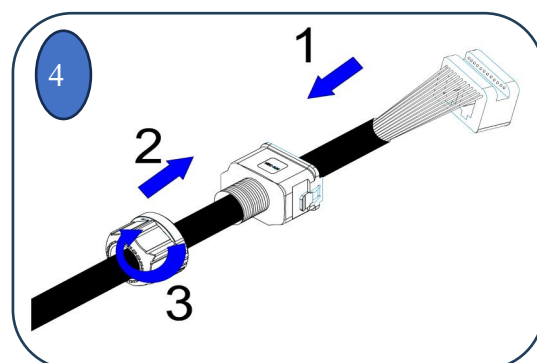
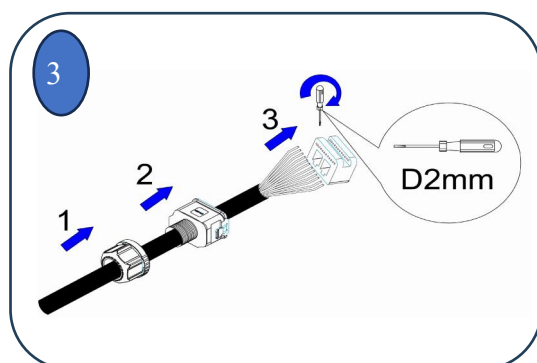
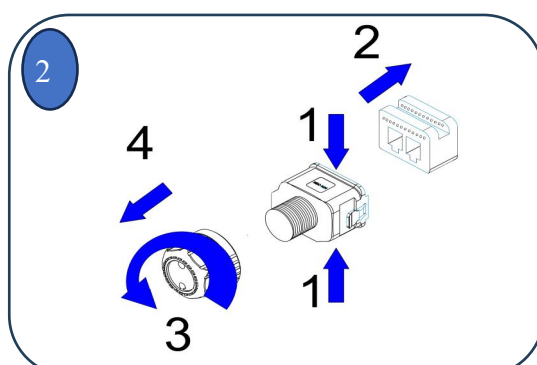
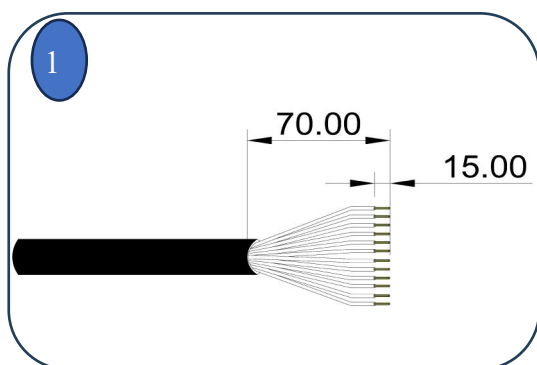


2.3 Communication side

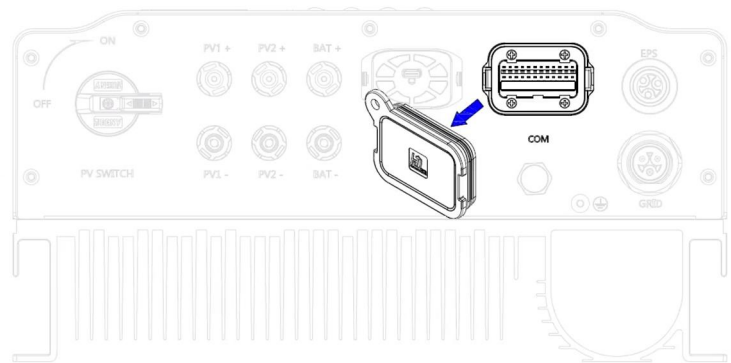
Installation position



Wiring Harness Making



Before installation, the cover plate needs to be removed as shown below

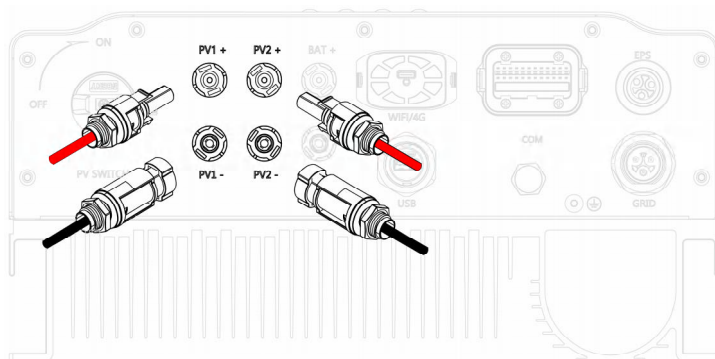


Communication interface location and definition

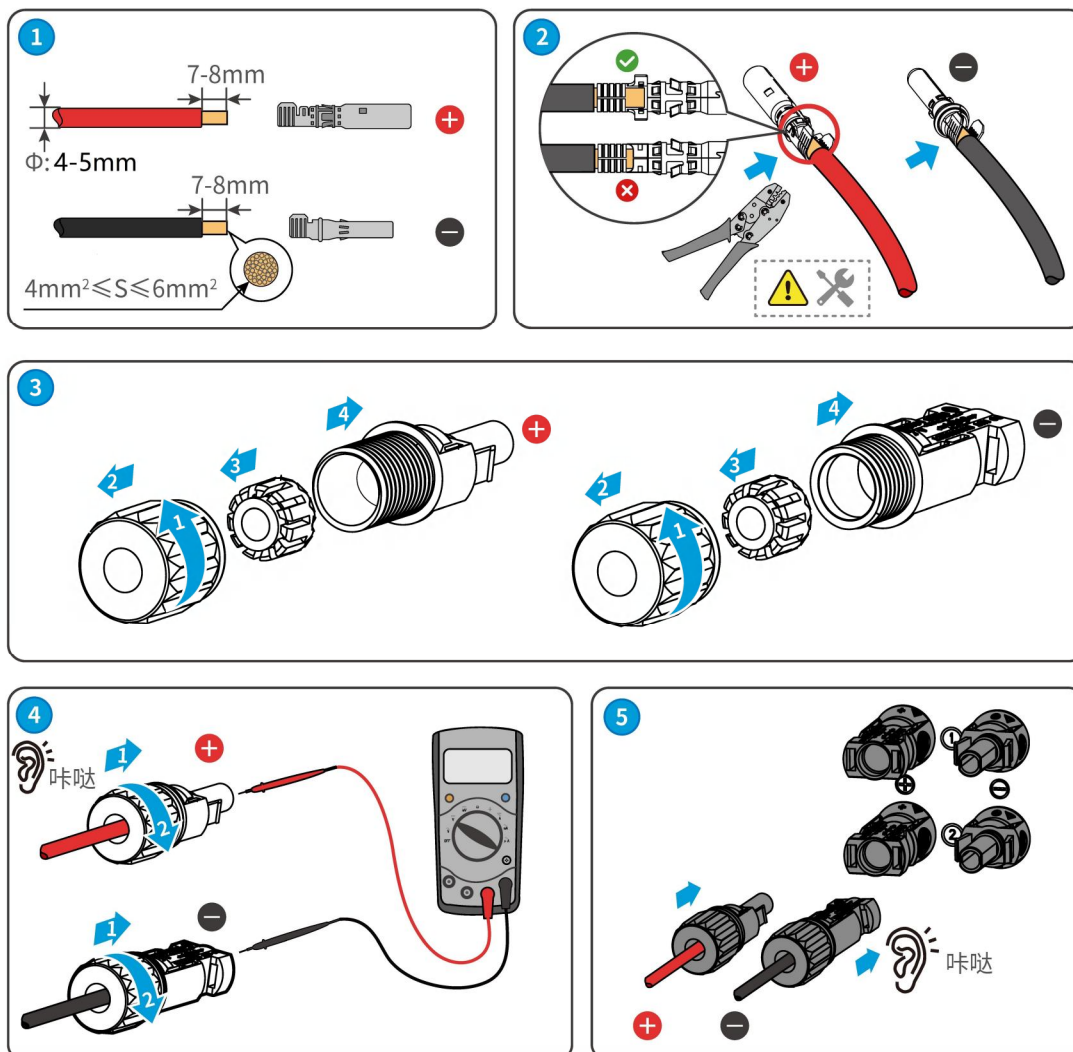
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		11 12 13 14 15 16 17 18 19 20 CAN DRM	
NO.	Description	NO.	Description
1	METER 485B	11	D0+
2	METER 485A	12	D0-
3	GND	13	CT1+
4	Para1_B	14	CT1-
5	Para1_A	15	CT2+ Do not use
6	Para2_B	16	CT2- Do not use
7	Para2_A	17	CT3+ Do not use
8	DI+	18	CT3- Do not use
9	DI- dry contact	19	NTC
10	NC	20	GND
Left net port: CAN		Right net port: DRM	
PIN: Left — Right (PIN1—PIN2)		PIN: Left — Right (PIN1—PIN2)	
PIN1	NC	PIN2	NC
PIN3	NC	PIN4	CAN_H
PIN5	CAN_L	PIN6	NC
PIN7	NC	PIN8	NC
PIN1	DRM1/5	PIN2	DRM2/6
PIN3	DRM3/7	PIN4	DRM4/8
PIN5	GEN	PIN6	COM
PIN7	NC	PIN8	NC

2.4 PV Side

Installation position



Wiring Harness Making

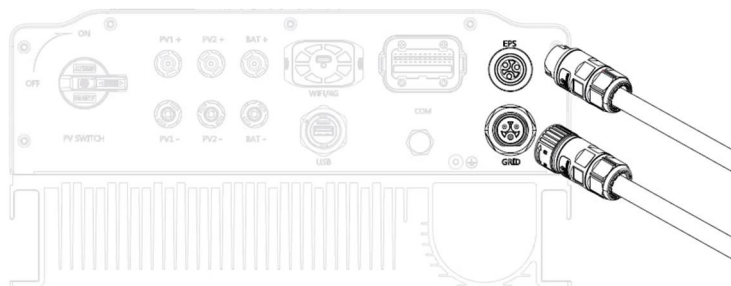


Before inserting the PV interface, please confirm the following two points:

- 1) The PV module voltage must not be higher than 600Vdc;
- 2) Before connecting the PV interface to the inverter, please disconnect the PV combiner box switch and the PV switch of the inverter

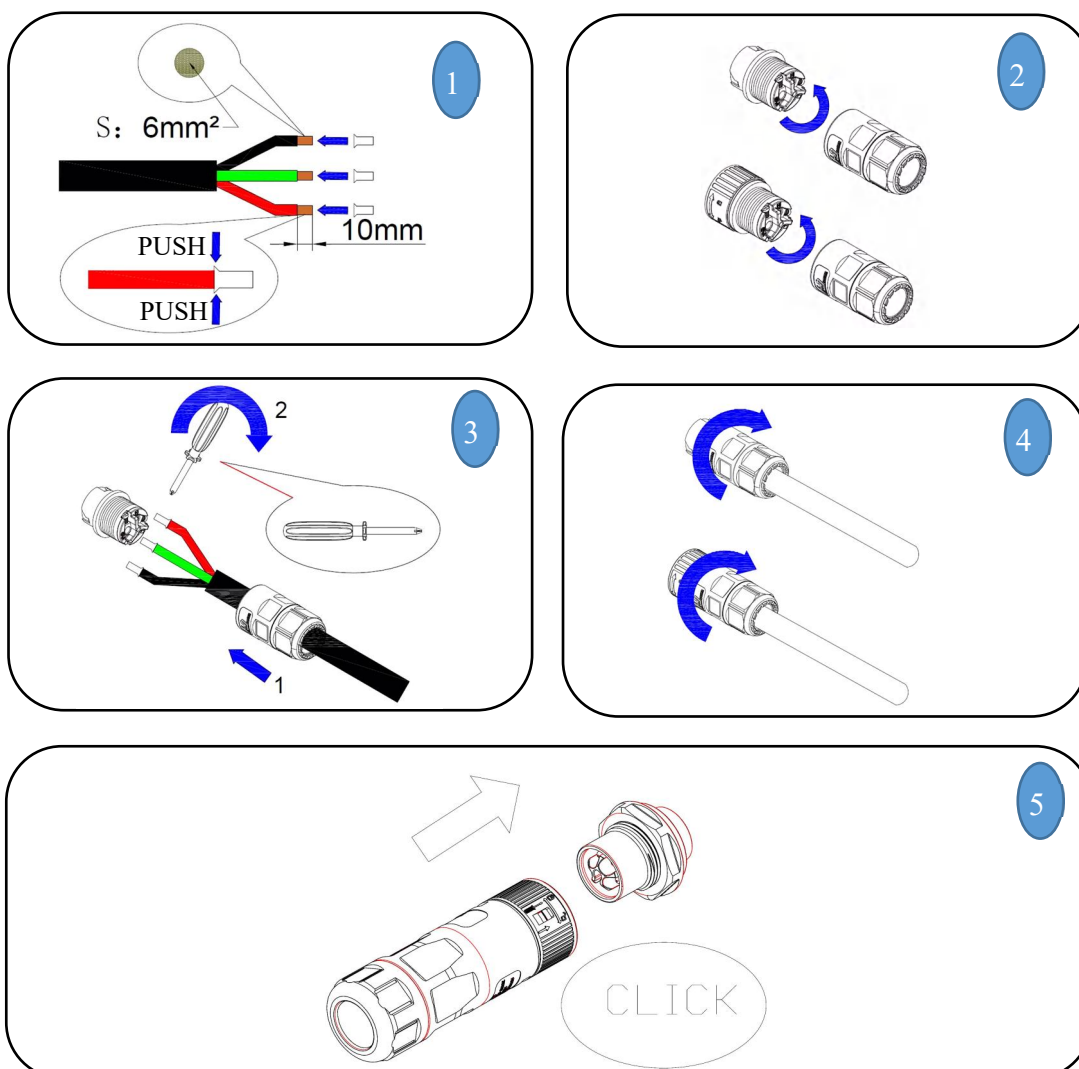
2.5 AC Side

Installation position

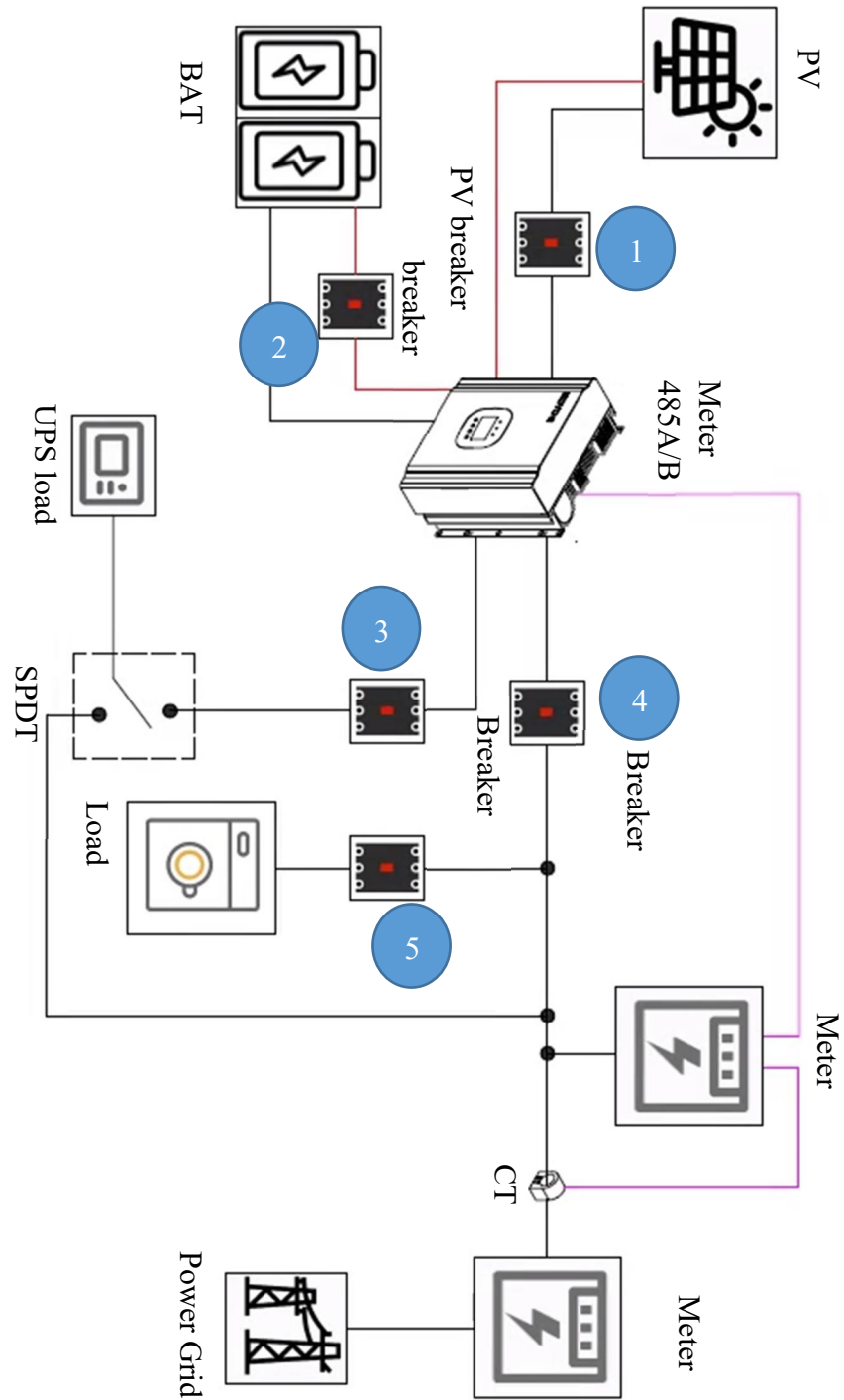


Terminal definition	Phase sequence	Harness color
L	L	Red
N	N	Black
PE	PE	Yellow-Green

Wiring Harness Making



3 Power on the Device

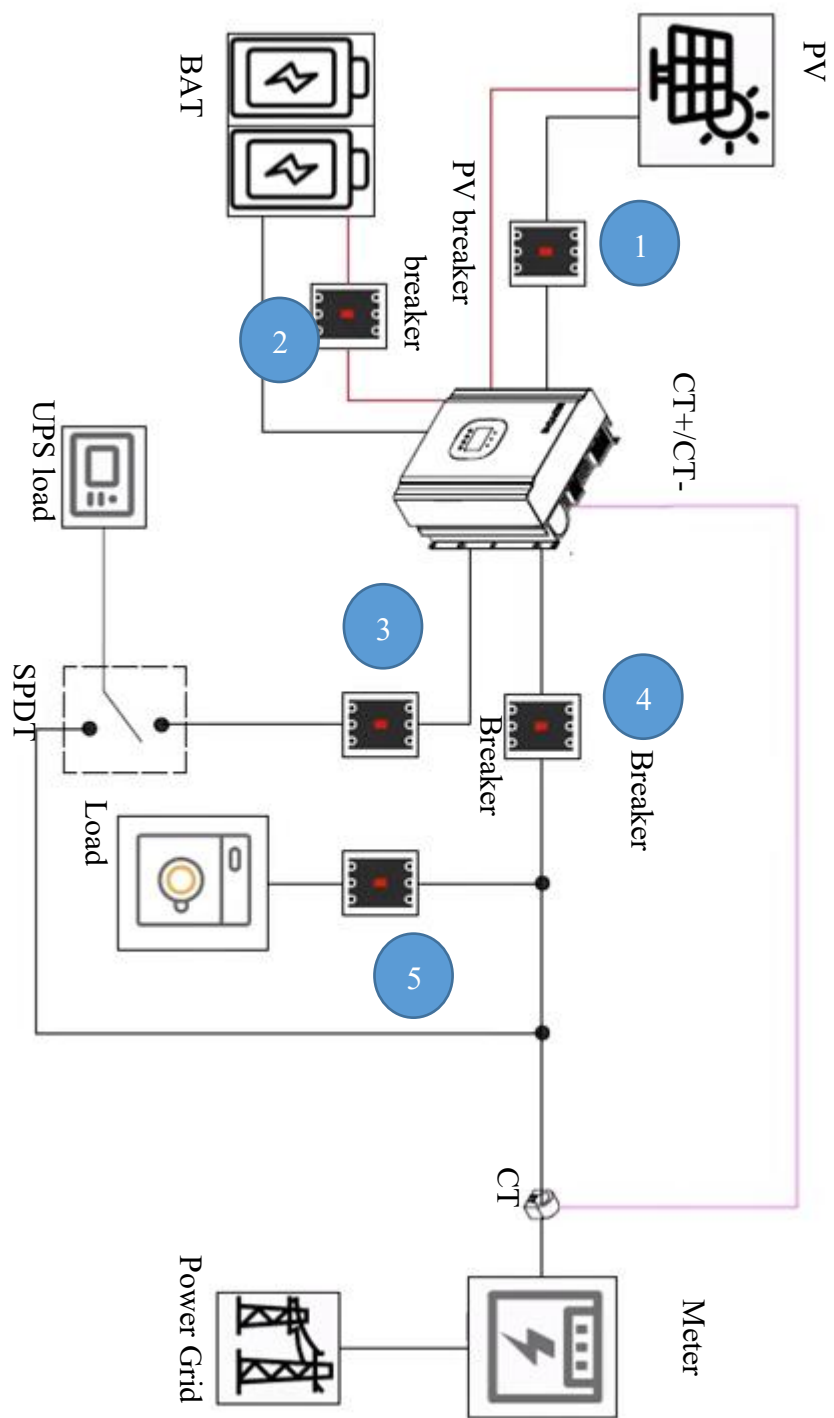


Power-on :

Close off switches: 4 — 2 — 1 — 3

Power-off :

Disconnect switches: 3 — 4 — 1 — 2



Power-on :

Close off switches: 4—2—1—3

Power-off :

Disconnect switches: 3—4—1—2

For detailed instructions, please read the manual carefully. The latest manual can be obtained at <http://download.koyoe.com/>, or scan the QR code below.

