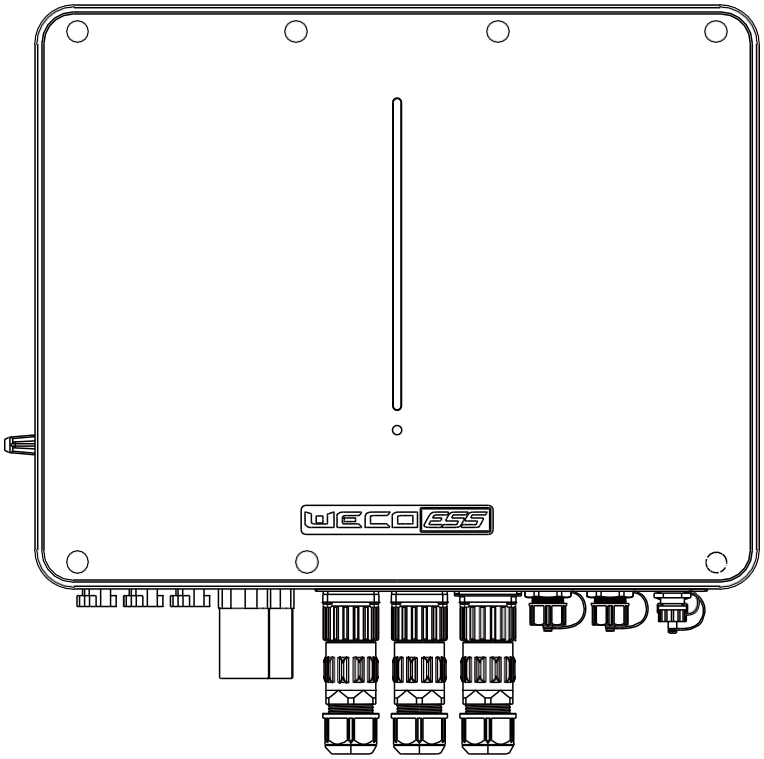


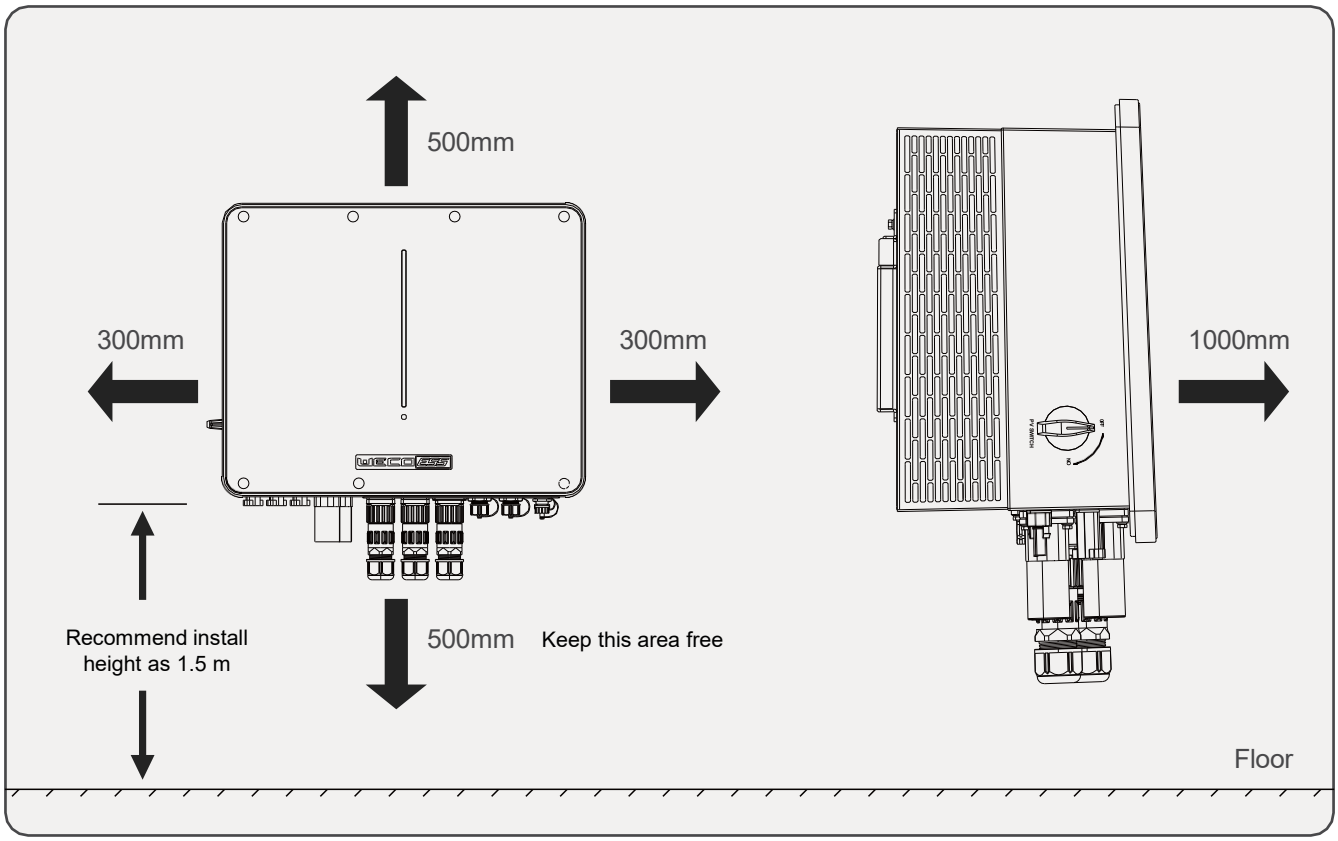
ESY Series Inverter

Quick Installation Manual

For Europe Market & Low Voltage Version

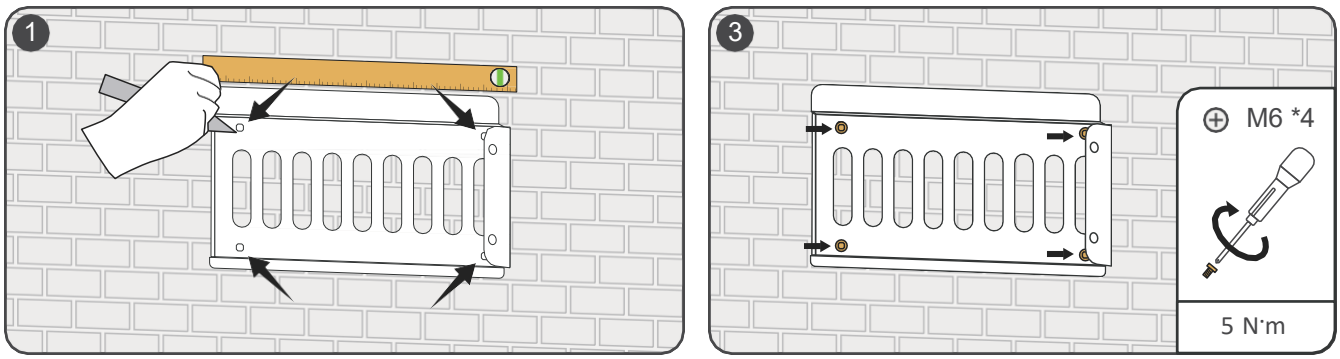
1 Installation space requirements

When installing the inverter, a certain amount of space must be reserved around it to ensure that there is sufficient room for installation, maintenance and heat dissipation. The recommended installation height is 1500 mm.

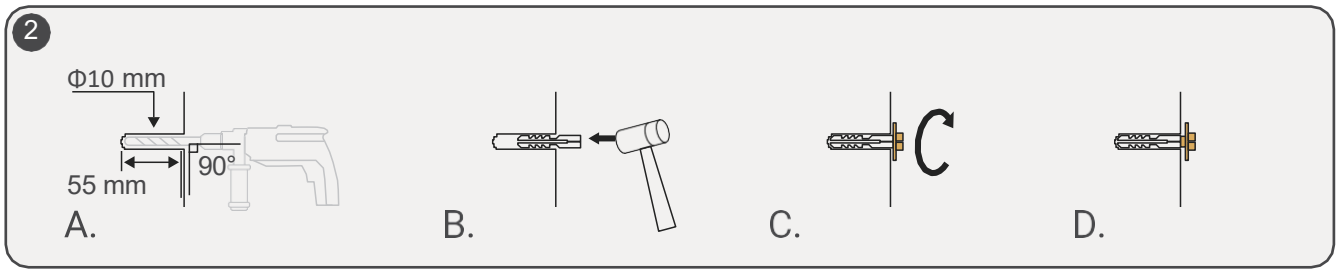


2 Install the device

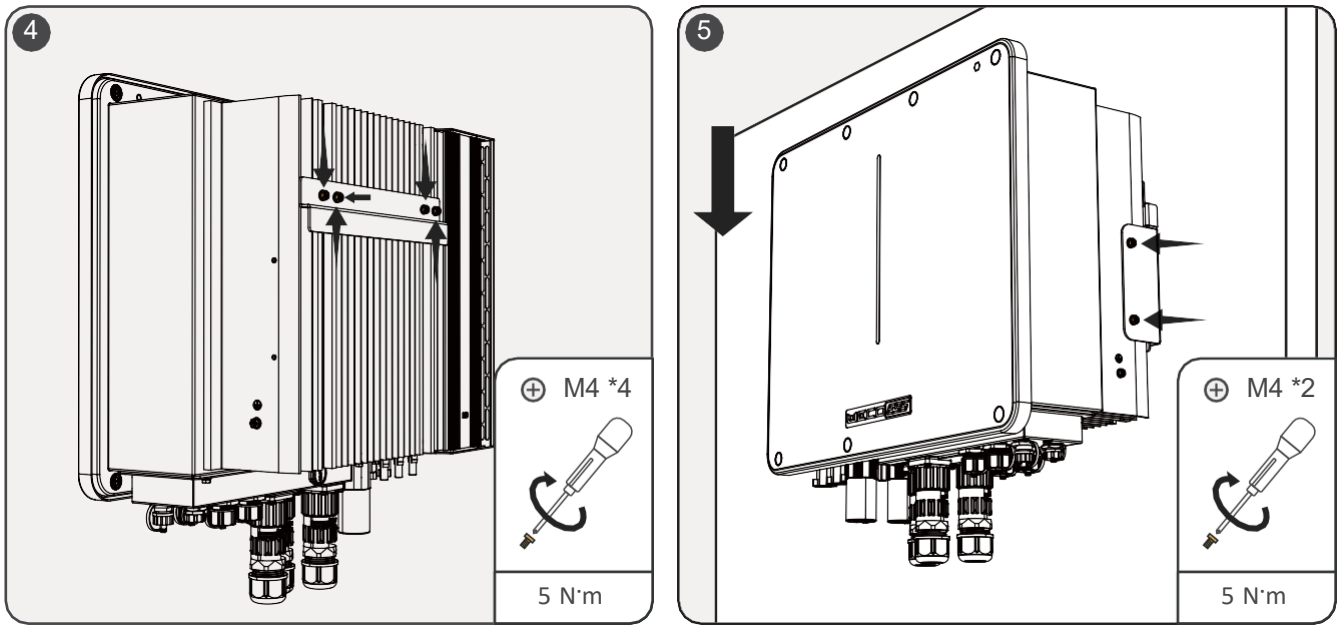
Use the bracket to locate the position of the holes on the wall.



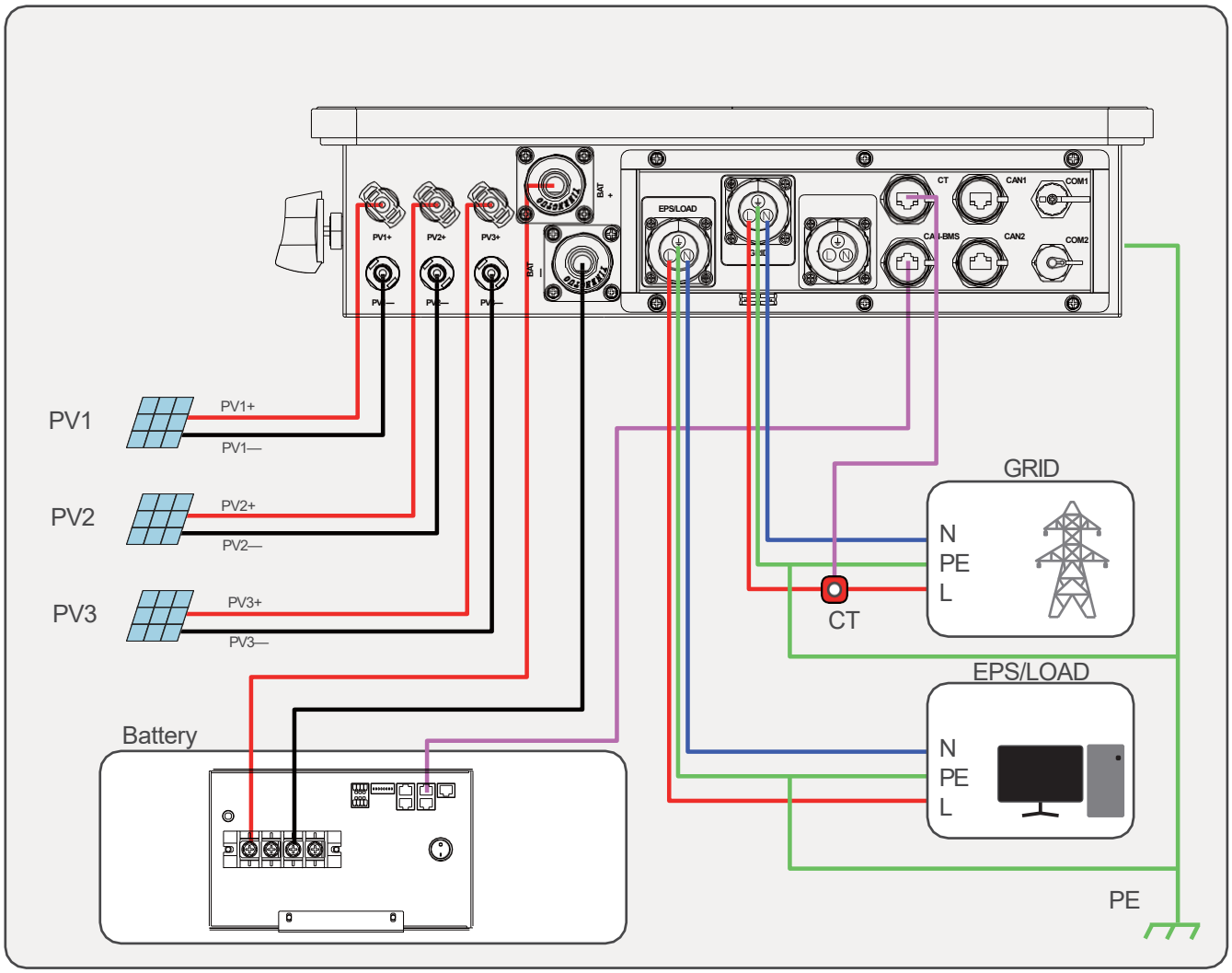
Drill the holes using a drill, install the expansion plugs and fix the bracket to the wall.



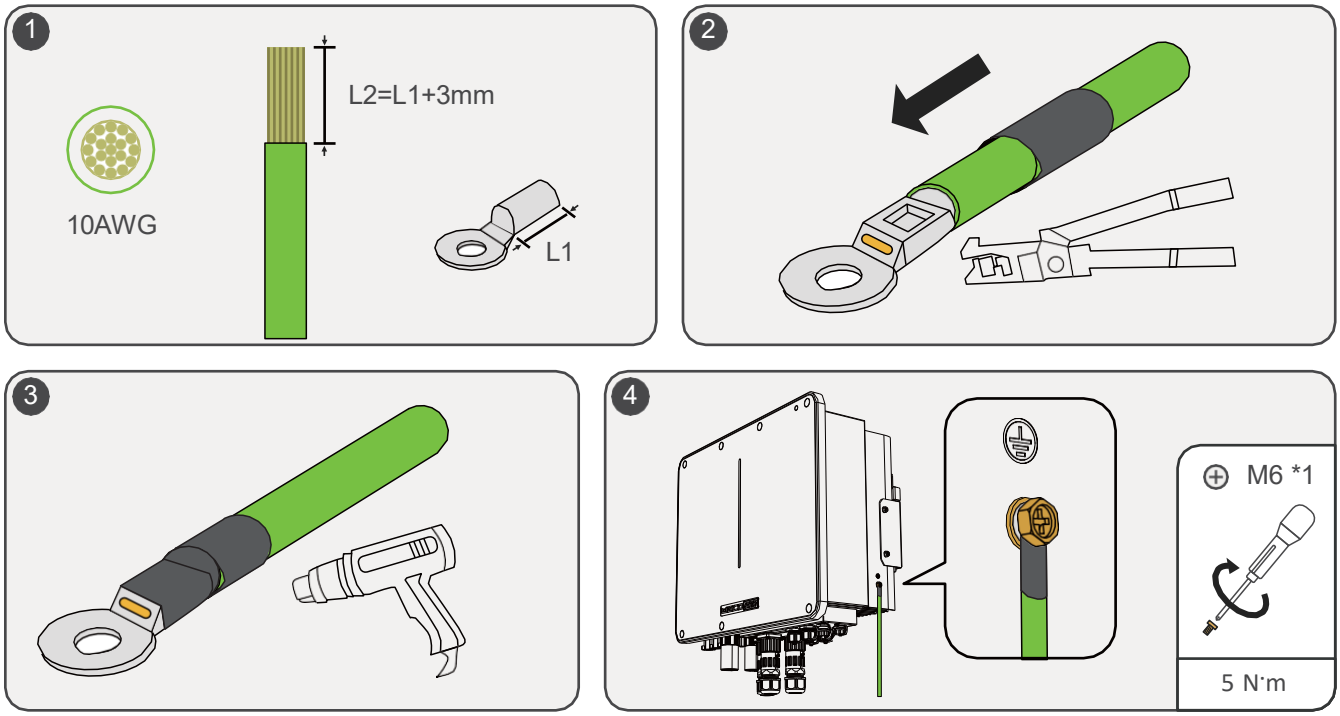
Install the bracket on the back of the inverter and mount the inverter on the wall bracket.



3 System Wiring

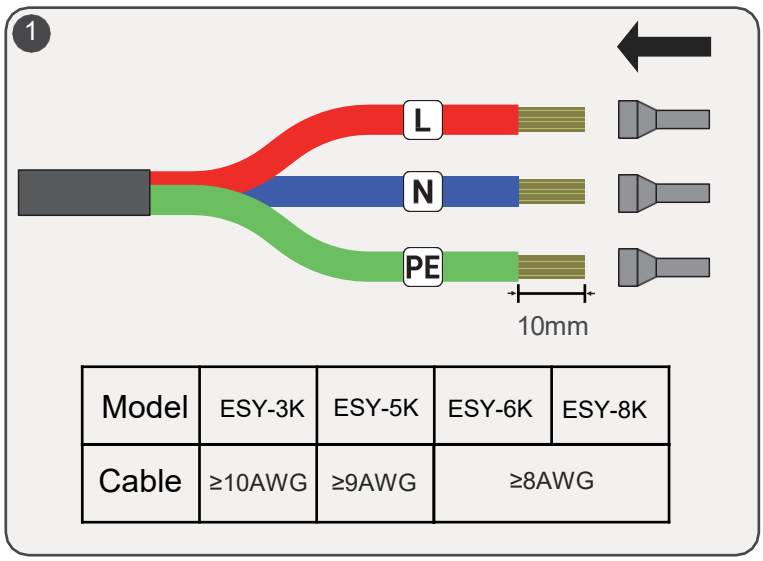


4 PE Cable Wiring

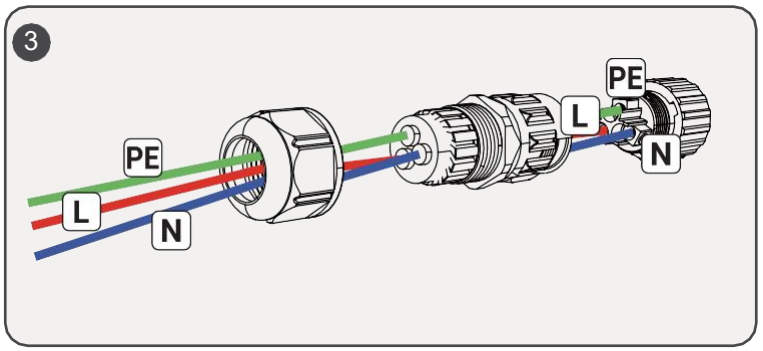


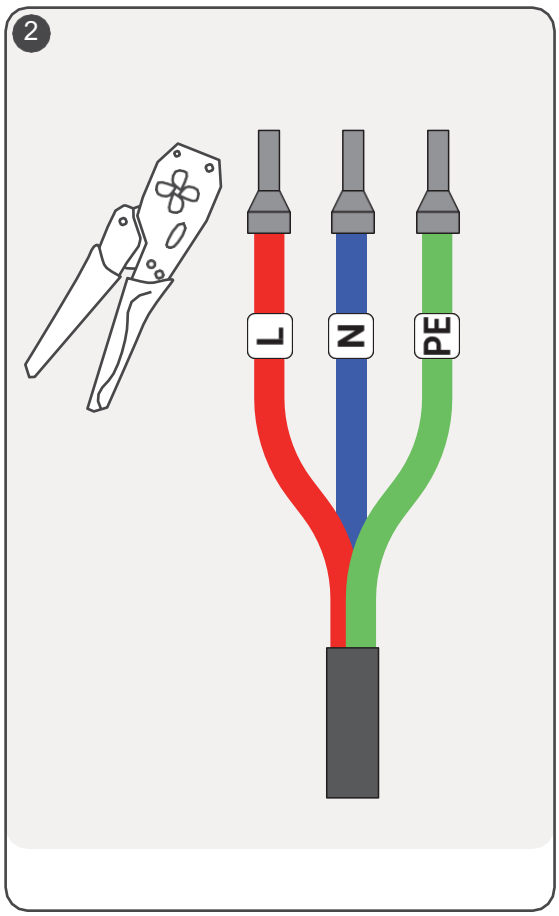
5 EPS Cable Wiring

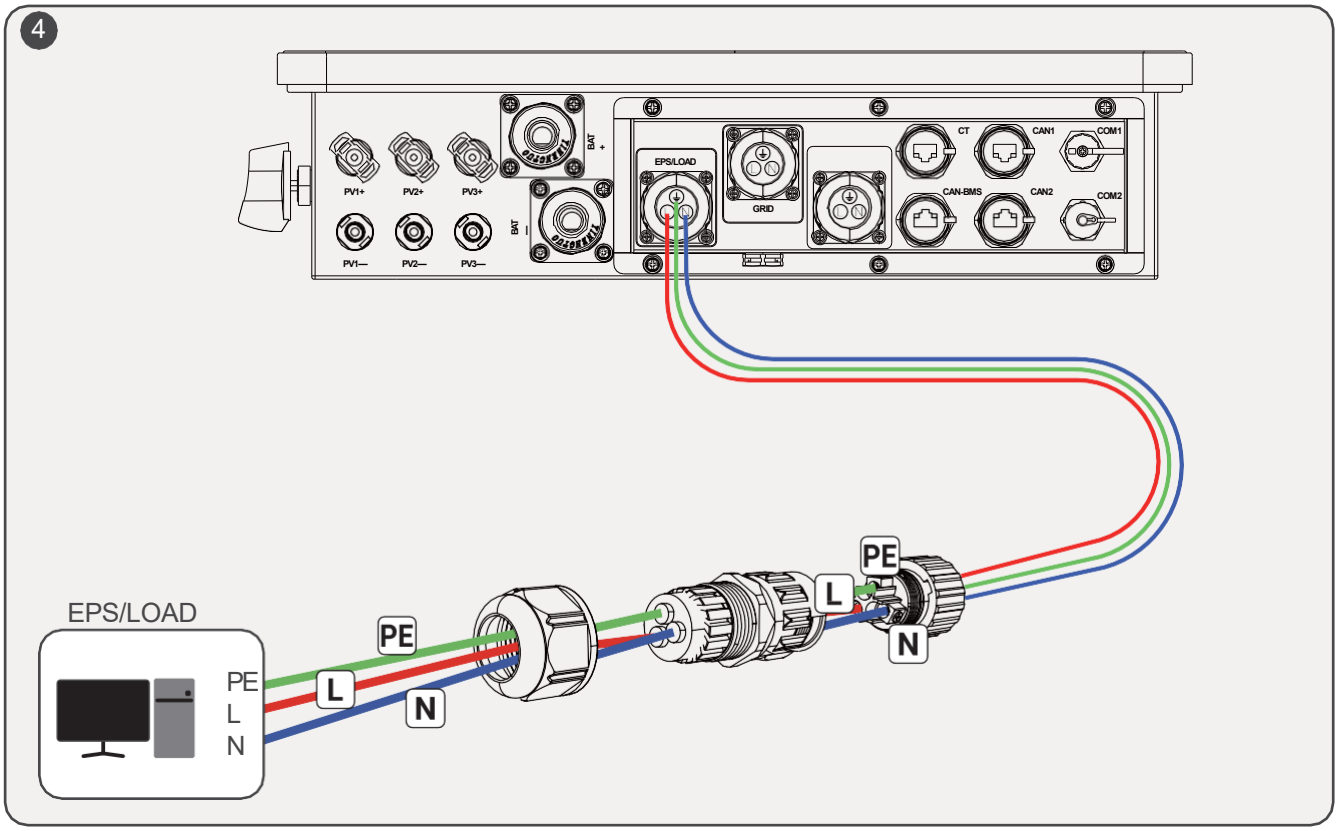
The EPS port should be reserved for critical loads that are to be supplied in off-grid conditions. The maximum power of the port is equal to the nominal power of the inverter, however, it is recommended to limit the power to 80% if possible.



Model	ESY-3K	ESY-5K	ESY-6K	ESY-8K
Cable	≥10AWG	≥9AWG	≥8AWG	



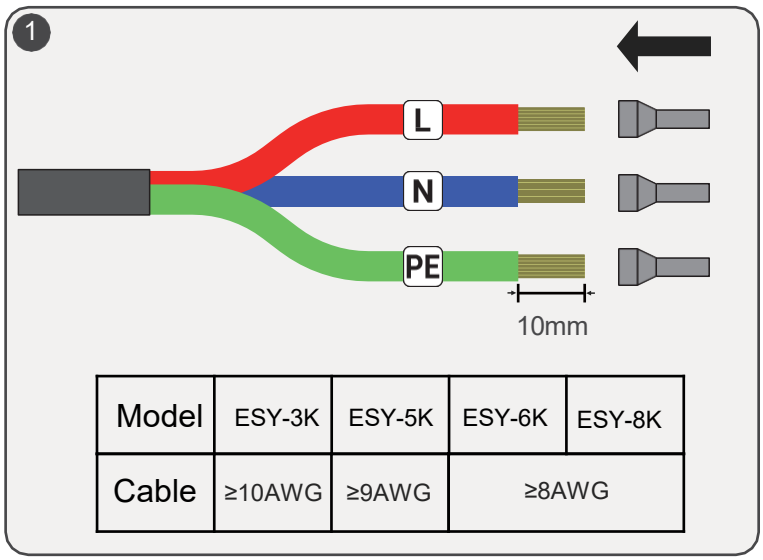




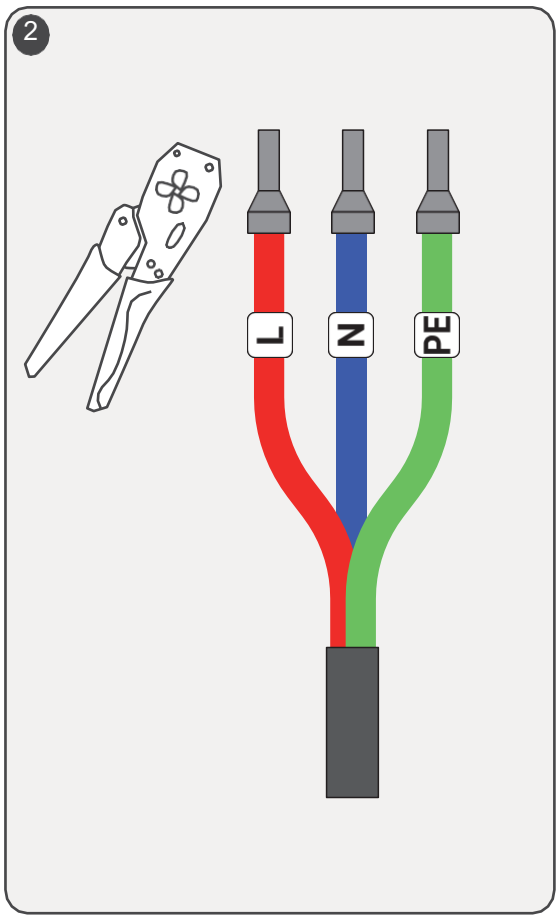
6

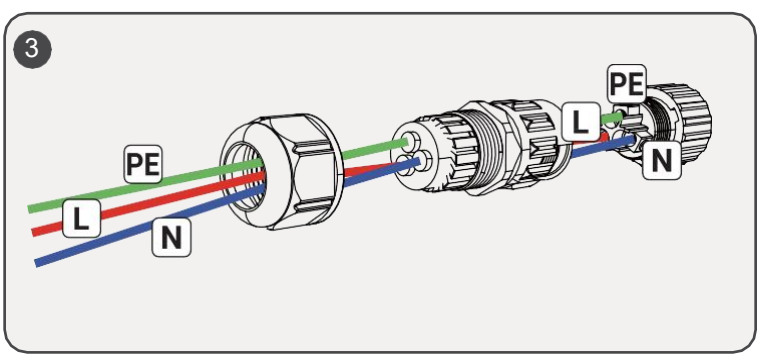
Grid Cable Wiring

For Grid cable wiring, WECO provides CT or meter wiring solutions, and users can choose the corresponding solution according to their needs.



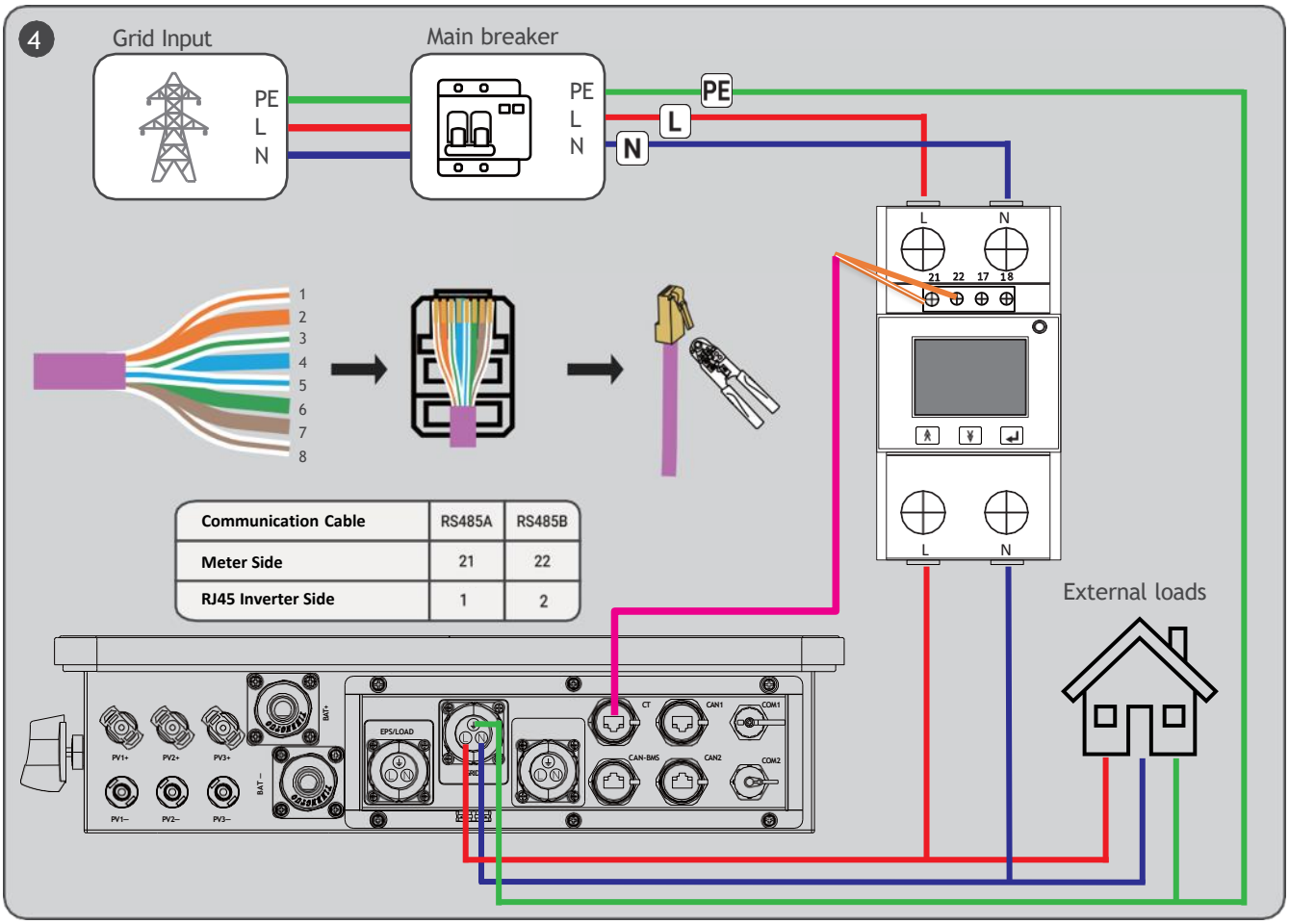
Model	ESY-3K	ESY-5K	ESY-6K	ESY-8K
Cable	≥10AWG	≥9AWG	≥8AWG	





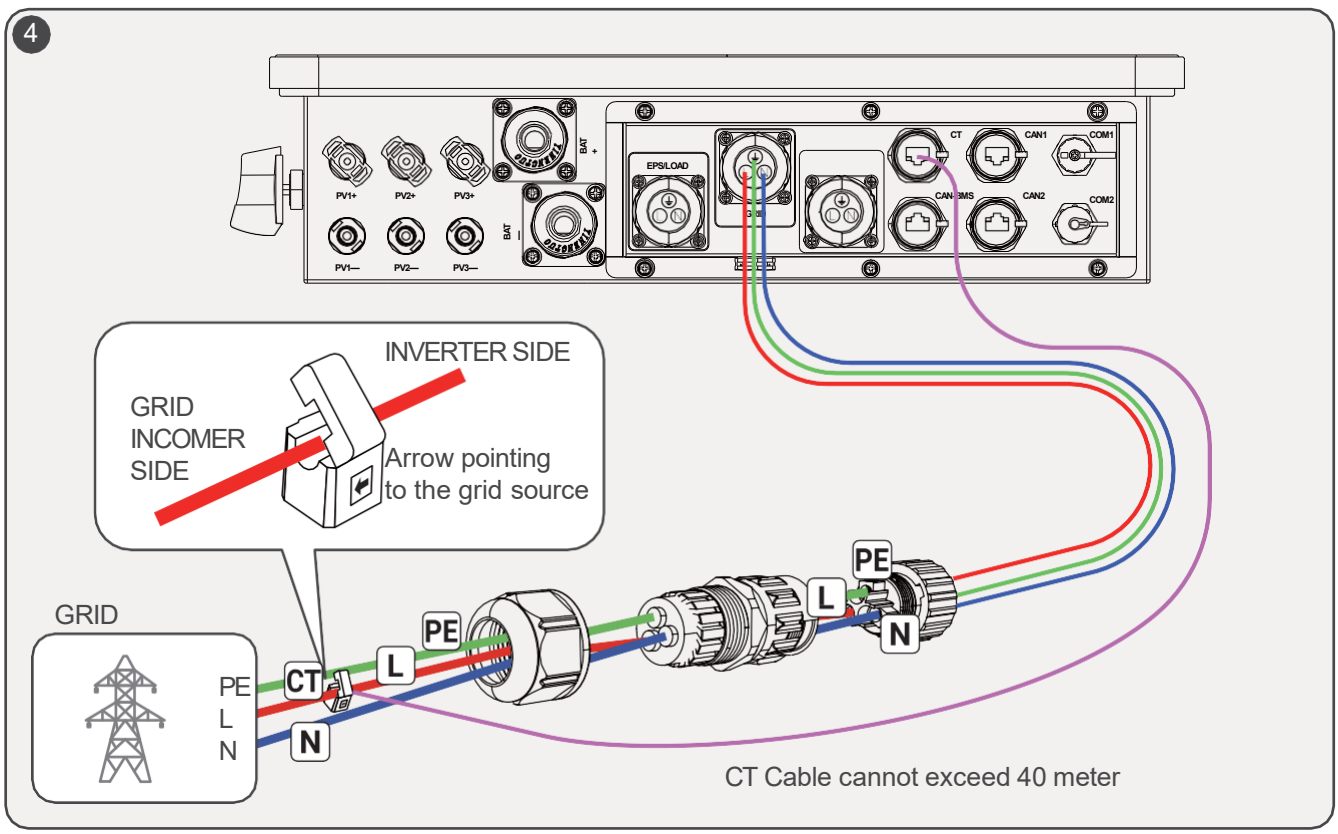
Meter Connection

Note: Please use an RJ45 cable with only PIN 1 and PIN 2 crimped. Do not use the other PIN of the CT port if meter is connected

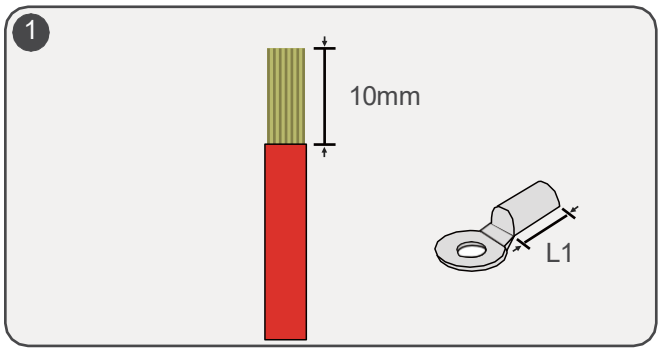


Communication Cable	RS485A	RS485B
Meter Side	21	22
RJ45 Inverter Side	1	2

CT Connection



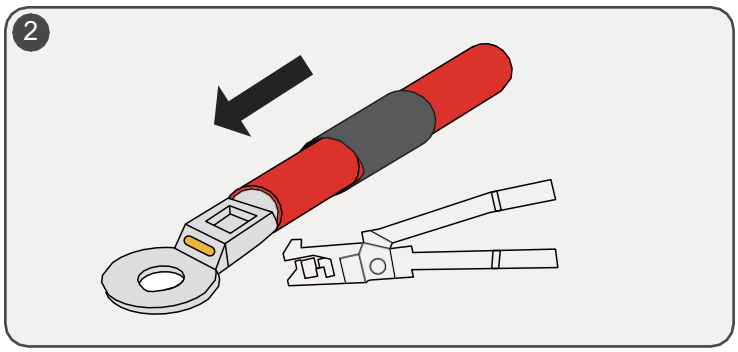
7 Battery Cables Wiring

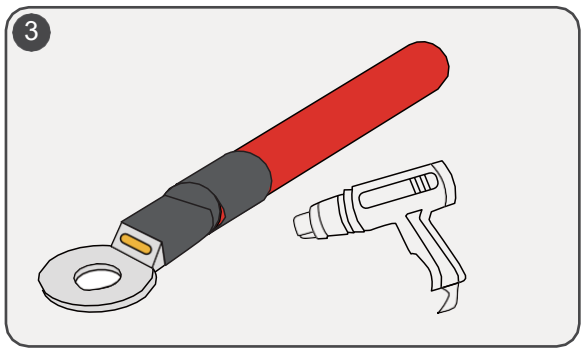


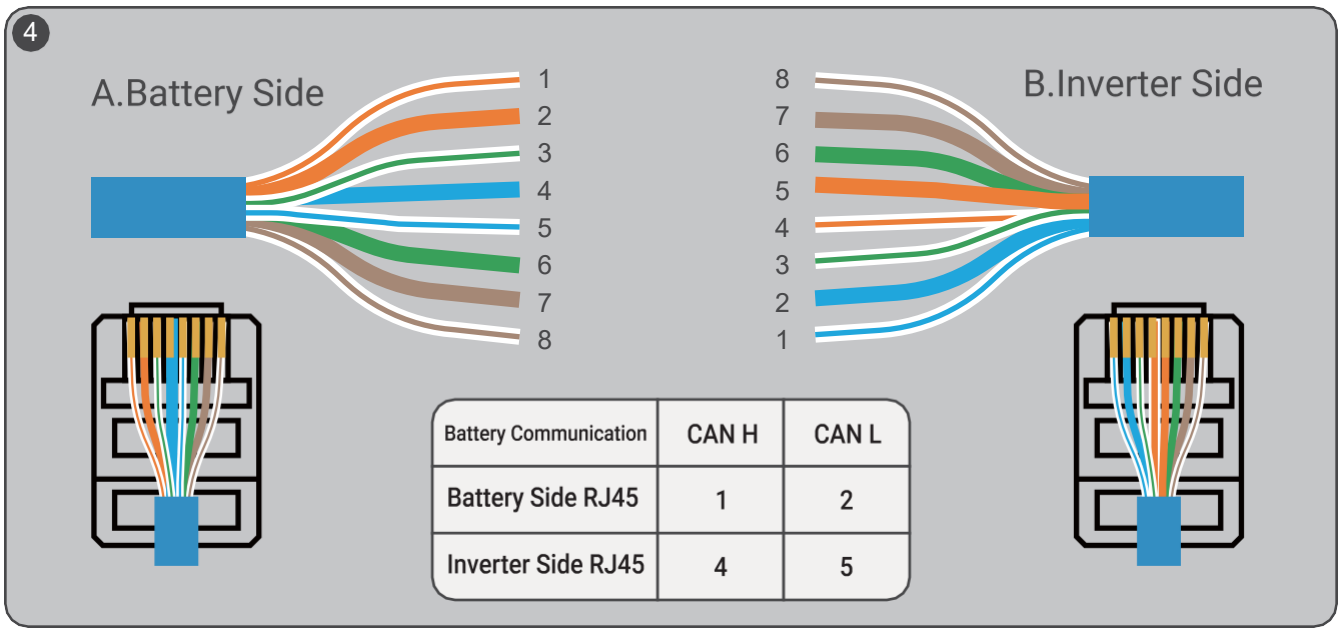
Model	ESY-3K	ESY-5K	ESY-6K	ESY-8K
Cable	≥3AWG	≥2AWG		≥1AWG

BAT+

BAT—

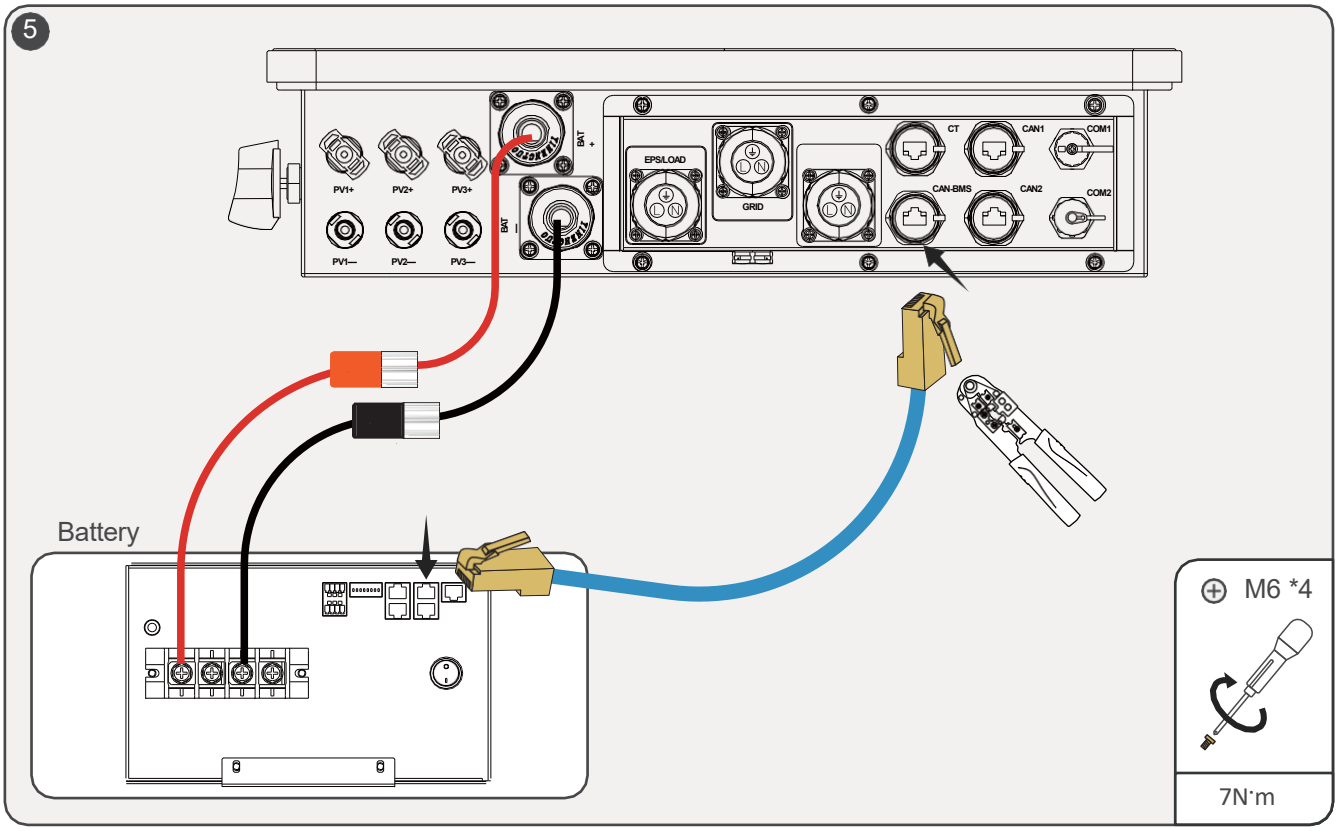




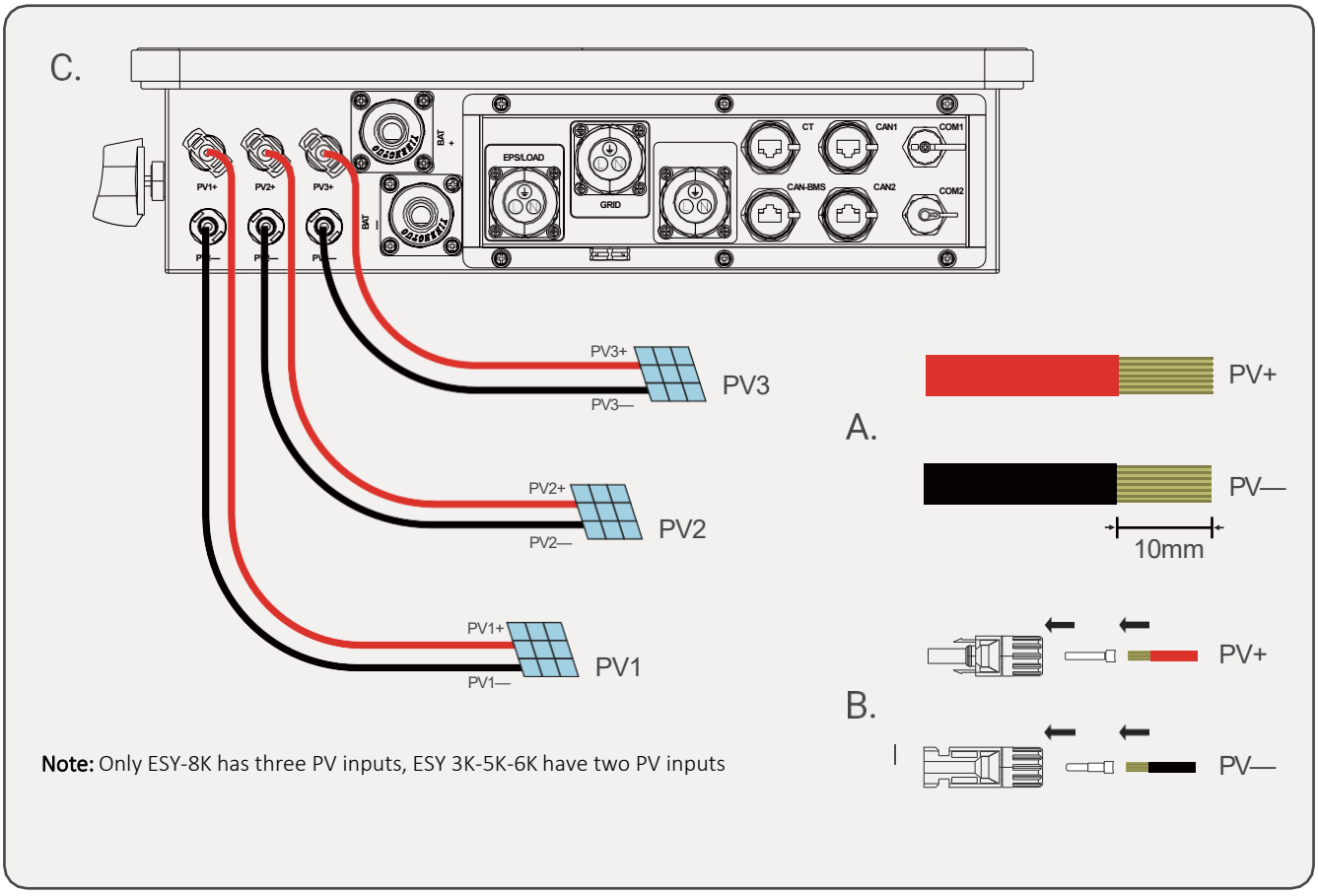


Battery Communication	CAN H	CAN L
Battery Side RJ45	1	2
Inverter Side RJ45	4	5

Note: Connect the CAN-A port of the battery to the CAN-BMS port of the inverter.
It is recommended to use a cable with only pins 1 and 2 on the battery side and pins 4 and 5 on the inverter side.

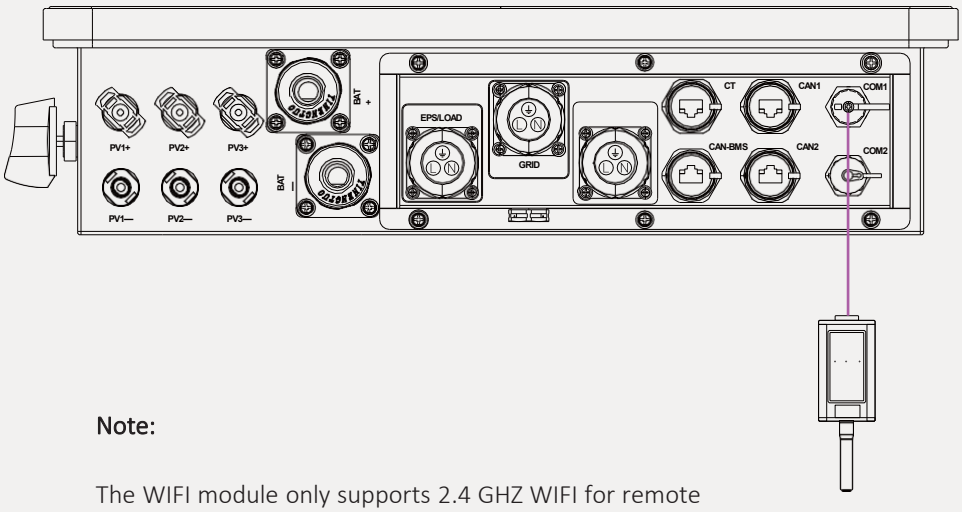


8 PV Cable Wiring



Note: Only ESY-8K has three PV inputs, ESY 3K-5K-6K have two PV inputs

9 Install WI-FI Module

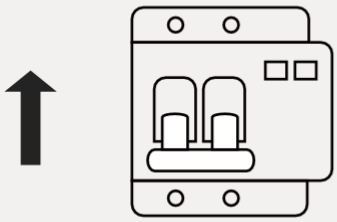


Note:

The WIFI module only supports 2.4 GHZ WIFI for remote connection via the WECO NOOR APP.Make sure your router supports 2.4 GHz for the inverter to connect to the cloud.

10 Power the system and commission

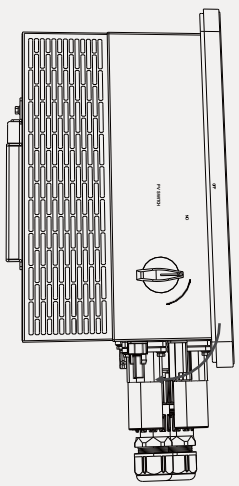
1

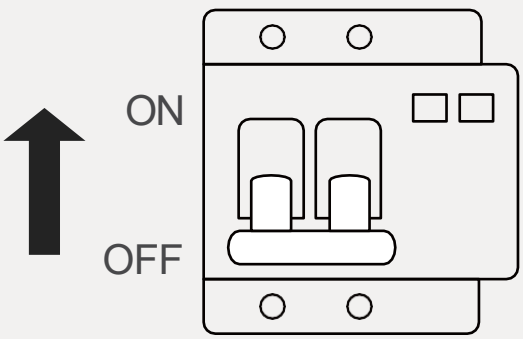


Note:

1) Before switching on the system, confirm that the system installation and all cable connections meet the requirements.
2) In the case of an On-Grid system, first close the grid input switch.
3) In the case of an Off-Grid system, switch on the battery directly.

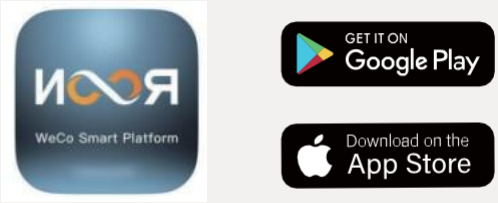
2





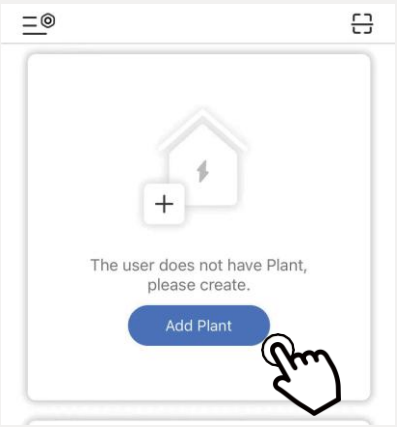
Once the system has been set up, close the photovoltaic and battery switch.

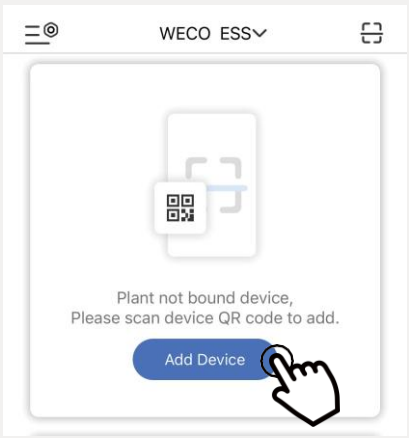
3



Download from Google or IOS app store

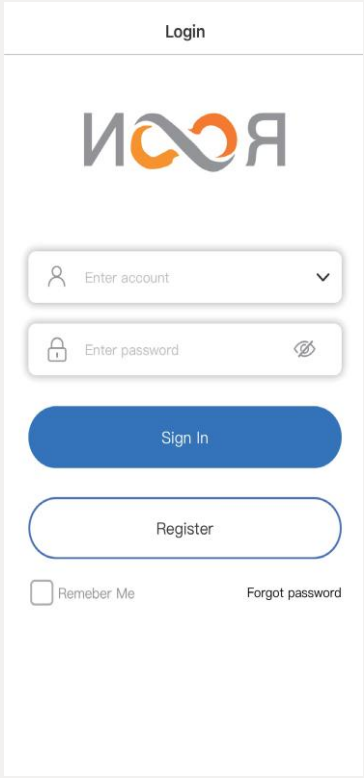
5





Add Plant and Add Device in the Plant

4



Register and Login in with user account

Nota:

1) Create an account to complete the commissioning steps.

2) Follow the steps to complete the Add System and Add Device steps.

3) Complete the system setup according to your connection and request.