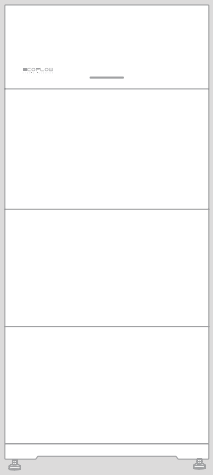
# INSTALLATION GUIDE

V1.4

**Issue Date**
**2025-01-14**

ECOFLOW POWEROCEAN (SINGLE-PHASE)

Home Solar Battery Solution



For the latest documents, please scan the QR code or visit:

https://enterprise.ecoflow.com/eu/documentation

**IMPORTANT**

- Before installing, operating, and maintaining the equipment, read and follow up Installation Guide and Safety Instructions.

# CHANGE HISTORY

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

### Issue 1.4 (2025-01-14)

- Deleted **N and PE cables are connected together in the Main Panel for wiring.**

### Issue 1.3 (2024-09-12)

- Added **EcoFlow PowerOcean System Cascading**.
- Added **Integrating Existing PV System to the EcoFlow PowerOcean System**.

### Issue 1.2 (2024-06-05)

- Added EcoFlow smart meter (for UK deliverables) to section **What's In The Box**.

### Issue 1.1 (2024-05-29)

- Replaced **the METER communication terminal of the equipment**.
- Updated **Connecting Smart Meter**.
- Added **CT Installation Direction**.
- Added **Wall Mounted Instruction**.

### Issue 1.0 (2024-03-07)

- This issue is the first official release.

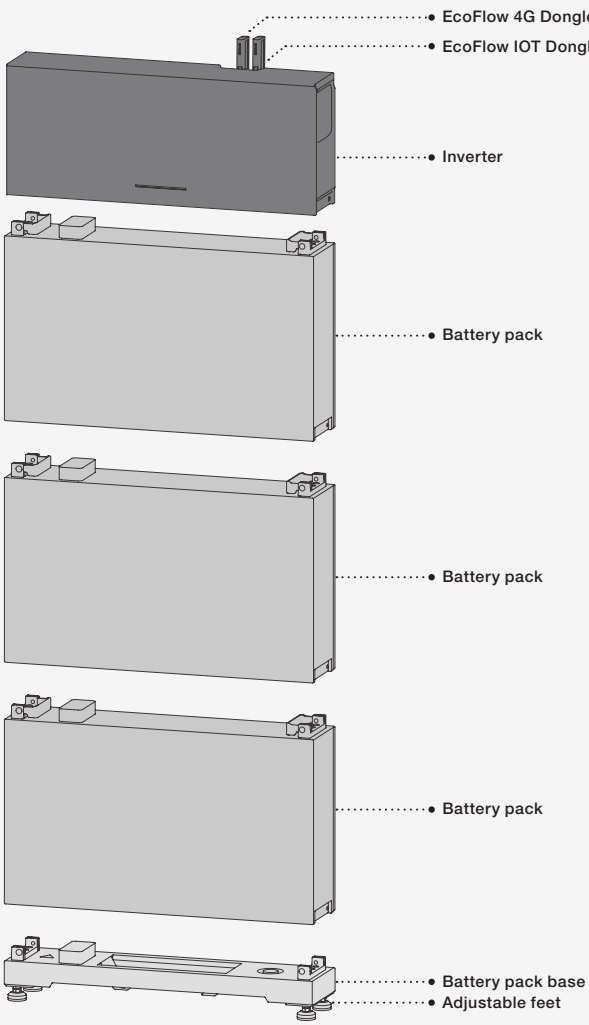
# CONTENTS

# Safety Instructions

| Symbol | Description |
|---|---|
| DANGER | Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. |
| CAUTION | Caution, risk of electric shock. |
| WARNING | Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury. |
| CAUTION | Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury. |
| NOTICE | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.<br>**NOTICE** is used to address practices not related to personal injury. |

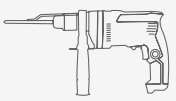
**DANGER**

- Before installing, operating, and maintaining the equipment, read and follow up Installation Guide and Safety Instructions.
- Personnel who plan to install or maintain EcoFlow equipment must receive thorough training, understand all necessary safety precautions, and be able to correctly perform all operations.
- Personnel who will install, operate, and maintain the equipment, including operators, trained personnel, and professionals, should possess the local national required qualifications in special operations such as high-voltage operations, working at heights, and operations of special equipment.
- Before connecting cables, ensure that the equipment is intact. Otherwise, electric shocks or fire may occur.
- Before installing, operating, and maintaining the equipment, **always disconnect it from all power**.
- Wear proper PPE (Personal protective equipment) before any operations.

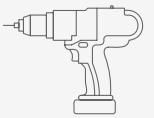


# Preparing Tools and Instruments

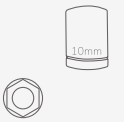
**• ESSENTIAL TOOLS**



Hammer drill
(with a drill bit of 8mm)



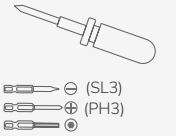
Electrical Screwdriver




Torque socket of 10mm

Multimeter
(DC voltage measurement range ≥ 1000 V DC)

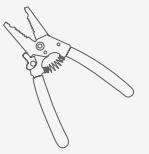
Mallet




Screwdriver

Cable cutter

Crimping tool



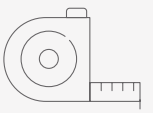
Wire strippers

RJ45 Crimping tool

Crimping tool
(for tubular terminal)

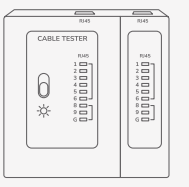
Wrench (14mm)

Marker



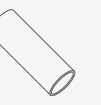
Steel measuring tape

Cable tie




Network cable tester

Heat gun



Heat-shrink tubing

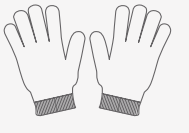
Screwdriver (PH2)

**• OPTIONAL TOOLS**

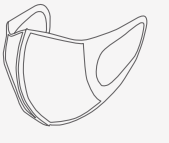
Vacuum cleaner

Safety goggles

Safety shoes



Safety gloves



Dust mask

# What's In The Box

**NOTICE**

- Check if the deliverables are intact and complete. If any item is missing or damaged, contact the supplier.
- Retain the original packaging and documentation for further needs.

## • ECOFLOW POWEROCEAN HYBRID INVERTER

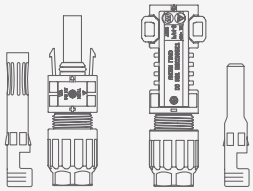
A1 ×1

EcoFlow PowerOcean Hybrid Inverter

A2 ×1

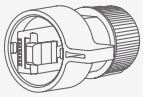
EcoFlow IOT Dongle ESS

A3 ×2



PV terminals

A4 ×1

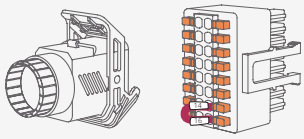


WAN port connector (Ethernet)

A5 ×1

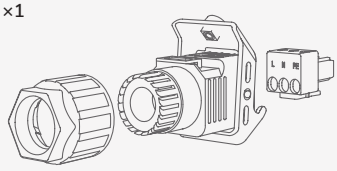
METER port connector (RS485)

A6 ×1



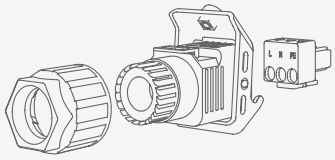
COM connector with shorting wire

A7 ×1



Grid connector

A8 ×1

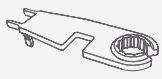


Backup connector

A9 ×5

Screws(M5*12)

A11 ×2



PV Disassembly and Assembly Tool

A12 ×2

OT terminal

A13 ×7

Tubular Terminal
(For wire gauge 10AWG/6mm²)

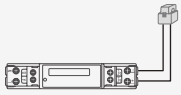
A14 ×5

Tubular Terminal
(For wire gauge 18AWG/1mm²)

A15 ×3

Tubular Terminal
(For wire gauge 26AWG/0.25mm²)

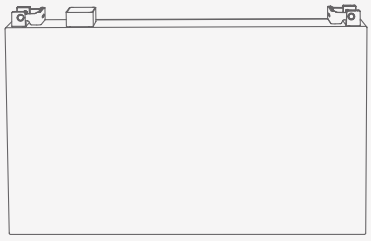
A16 ×1



EcoFlow smart meter
(For UK deliverables only)

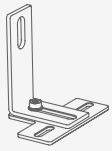
## • ECOFLOW POWEROCEAN LFP BATTERY

B1 ×1



EcoFlow PowerOcean LFP Battery

B2 ×2



Battery T-shaped mounting piece(M6)
Battery L-shaped mounting piece

B3 ×8

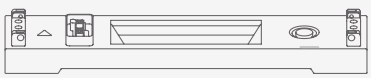
Screws(M5*12)

A10 ×2

Expansion bolt(M6*60)

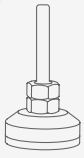
## • ECOFLOW POWEROCEAN LFP BATTERY BASE

C1 ×1



Battery base

C2 ×4

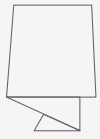


Adjustable feet

C3 ×2

Expansion bolt(M6*60)

C4 ×1



Marking-off template for battery

# System Installation

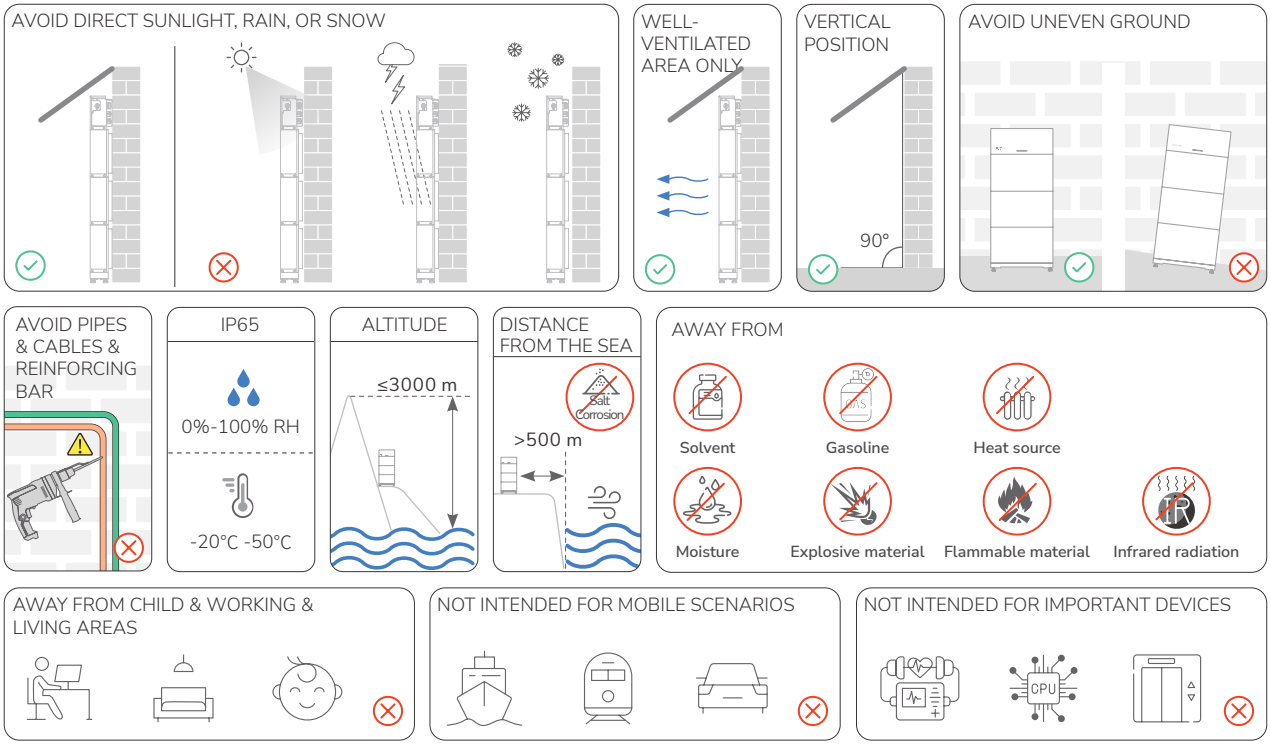
## Installation Environment Requirements

**WARNING**

- The installation and use environment must meet relevant international, national, and local standards for lithium batteries, and are in accordance with the local laws and regulations.

**NOTICE**

- When installing the equipment in a garage, keep it away from the drive way.
- The mounting structure where the equipment is installed must be fire resistant. Do not install the equipment on flammable building materials.
- Ensure that the installation surface is solid enough to bear the weight of the equipment.



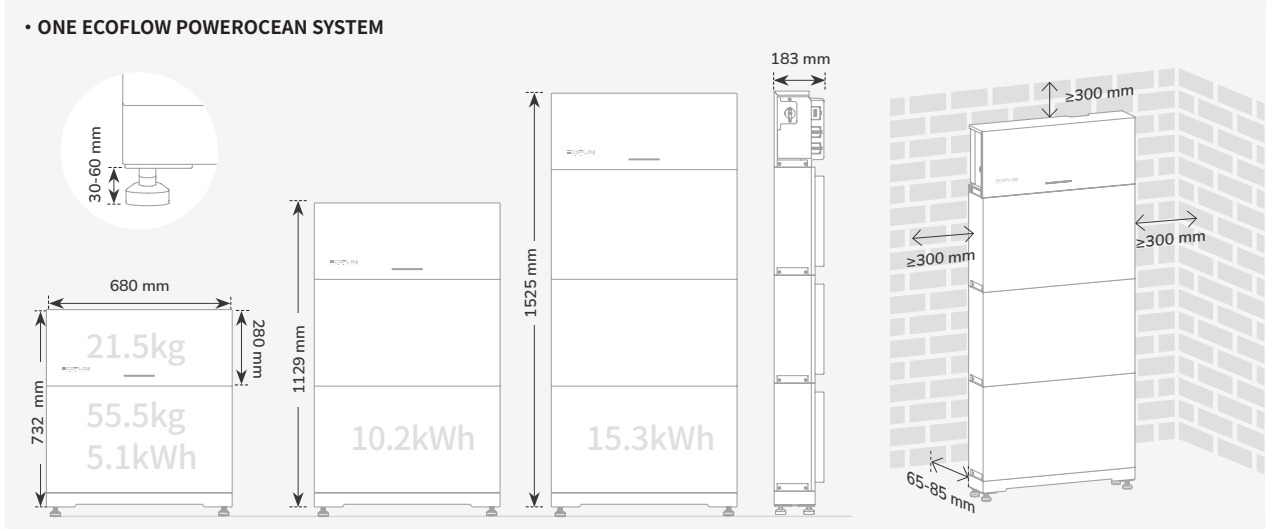

## Installation Space Requirements

**WARNING**

**NOTICE**

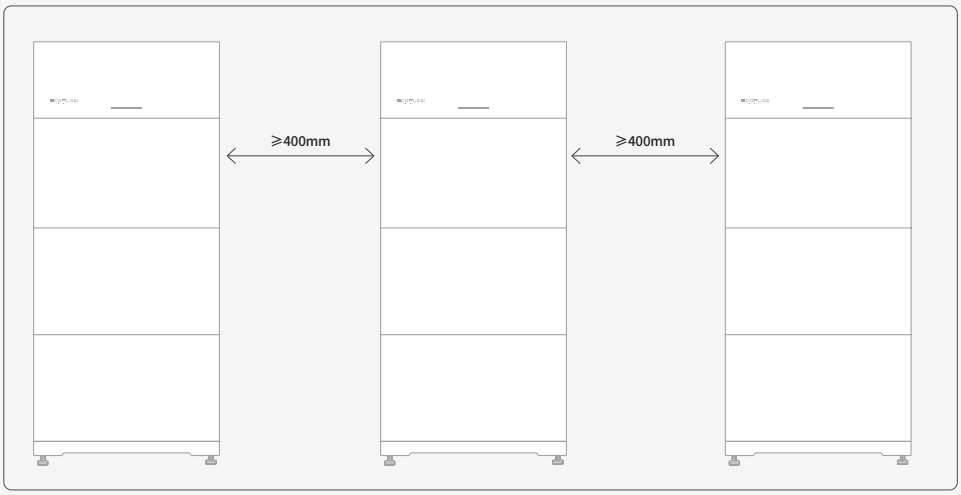
- Reserve enough clearance around equipments to ensure sufficient space for installation and heat dissipation.
- Ensure there is enough space on both sides of the battery to facilitate the locking operation of the screws on the side of the battery.
- When installing two sets of batteries (number of battery packs ≥ 4), ensure that the minimum clearance between the two sets of batteries is 400mm, while greater clearance is also permitted if it is required by the specific local electrical codes.
- When installing multiple inverters, install them in horizontal mode if sufficient space is available and install them in triangle mode if no sufficient space is available. Stacked installation is not allowed.

**• ONE ECOFLOW POWEROCEAN SYSTEM**



• **ECOFLOW POWEROCEAN SYSTEM CASCADING**

**- HORIZONTAL INSTALLATION MODE (RECOMMENDED)**




## Installing Battery

**DANGER**

- When drilling holes, avoid the water pipes and power cables buried in the wall and under the floor.
- When drilling holes, protect the battery base from shavings or dust.
- Before installing the battery, make sure that the click-on terminals on the top and bottom of the battery are free of foreign objects or any liquid.

**CAUTION**

- Assign enough personnel (two or more) to move battery to avoid personal injury and battery damage.
- When moving battery, hold handles on top of the battery module.

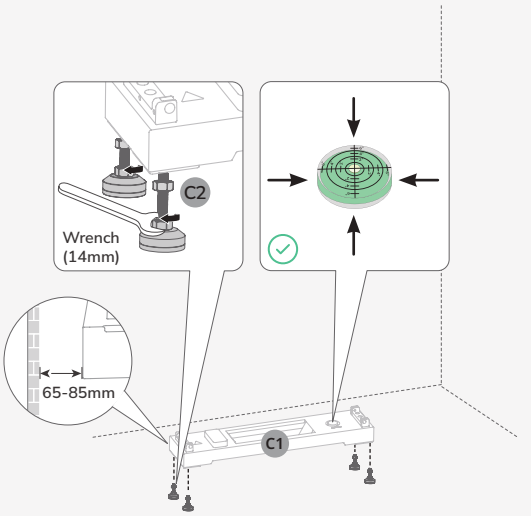
**NOTICE**

- Sealant is applied underneath the battery base to ensure its resistance against water.
- There will be a gap between the battery junction box and the battery pack before the screws are tightened. This gap is caused by the mechanical design to meet the IP rating, and will normalize after the screws are tightened.
- **(Optional) Install the provided adjustable feet to the base if needed.** Then you can adjust the feet and check the level on the base to ensure that the base is placed horizontally, screw the nuts of the four feet to the top to lock.

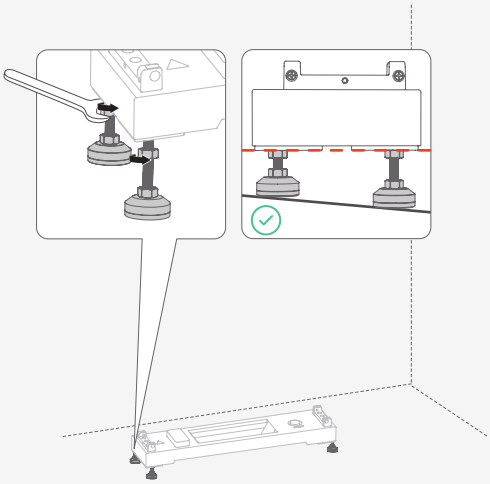
### Method 1: Floor Mounted

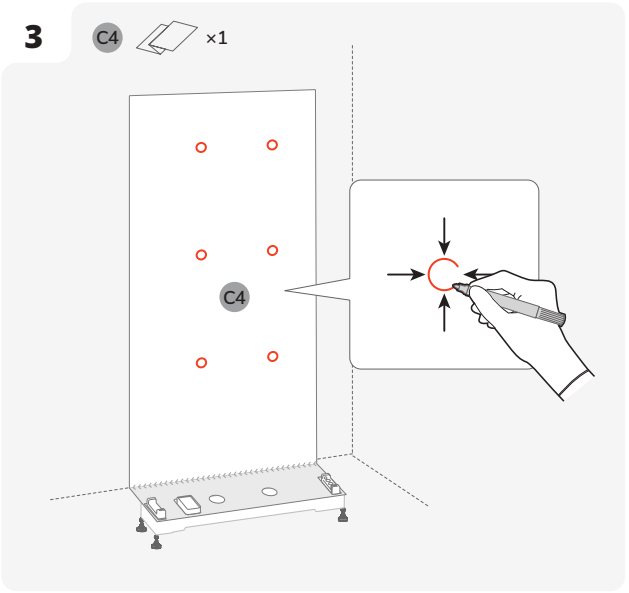
• **WITH ADJUSTABLE FEET**

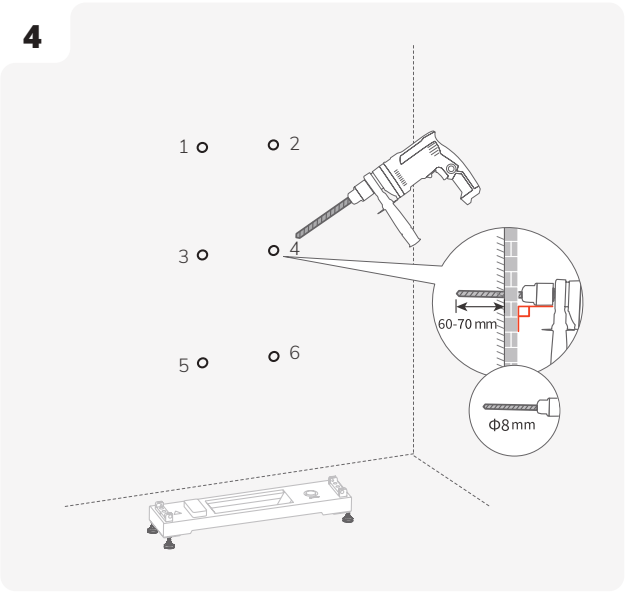
**1**

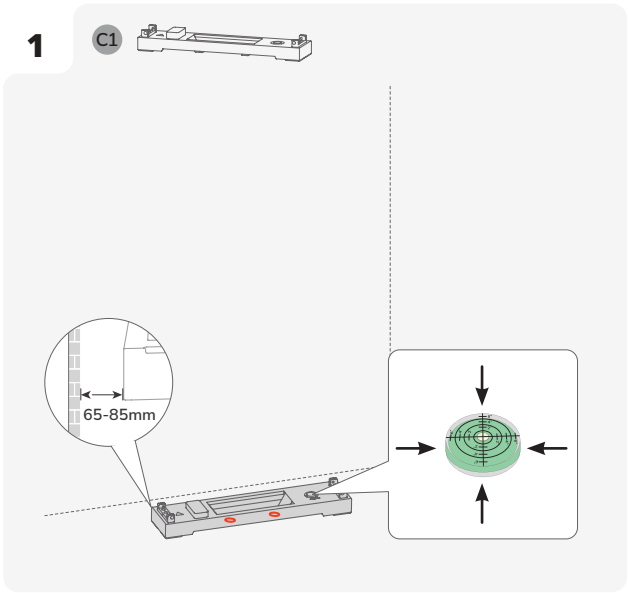

**2**

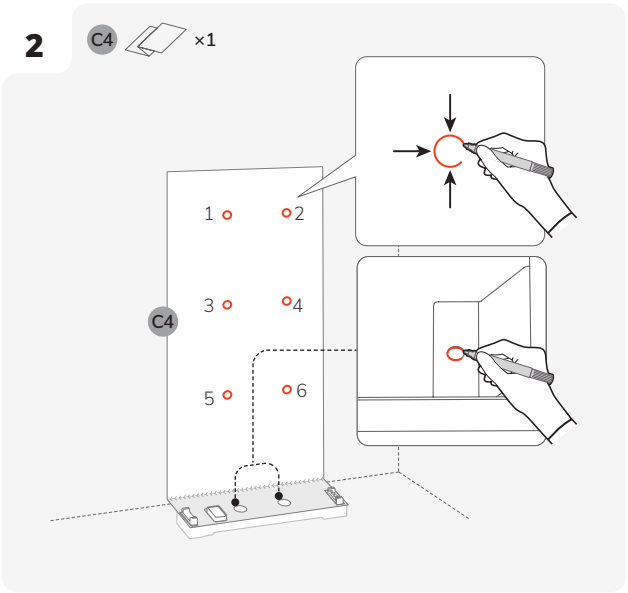


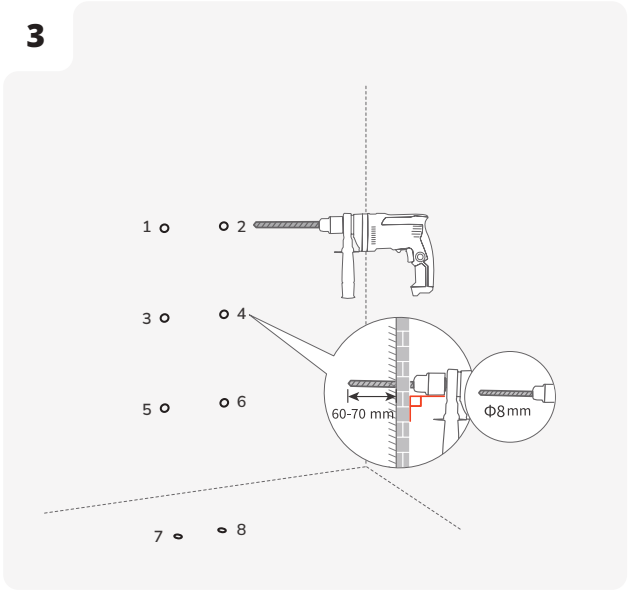


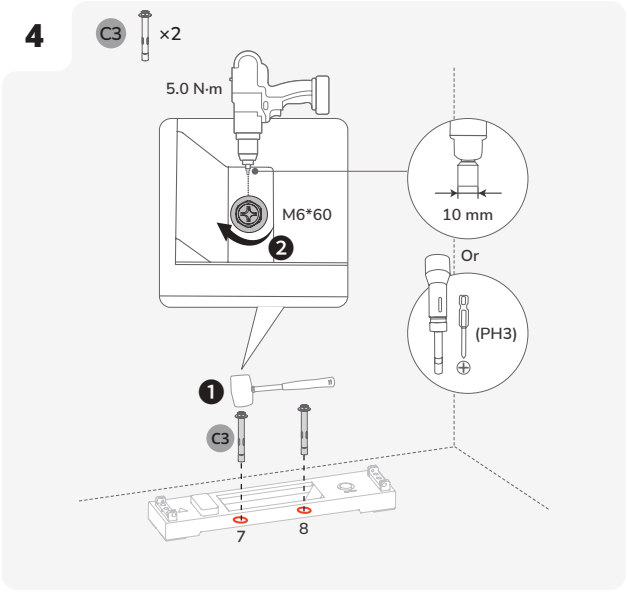




• **WITHOUT ADJUSTABLE FEET**



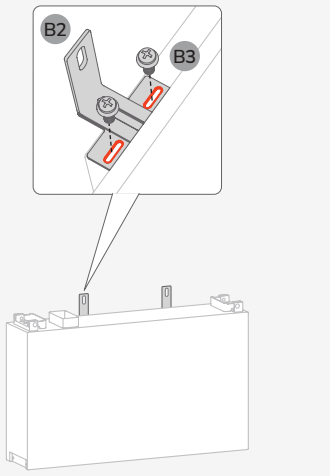



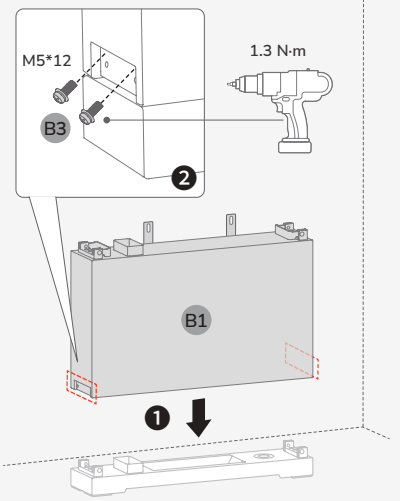
## 5

B1 ×1 B2 ×2 B3 ×4



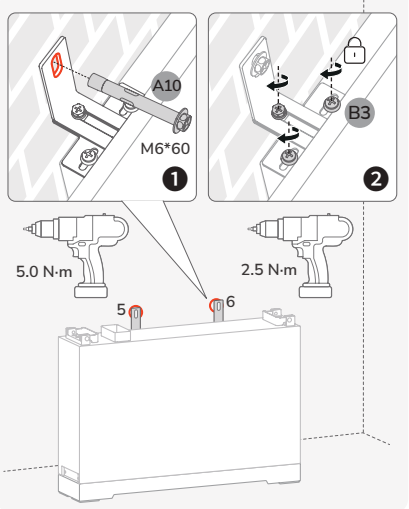

## 6

B3 ×4



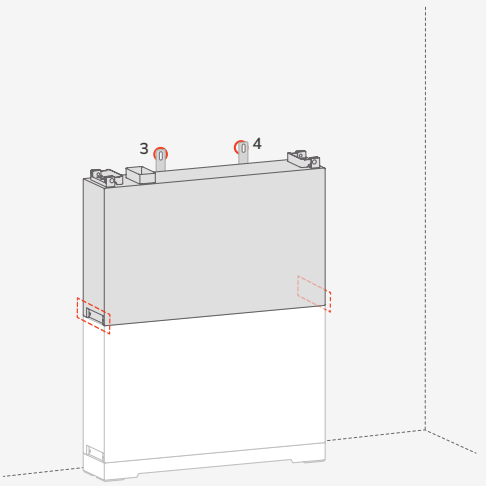

## 7

A10 ×2



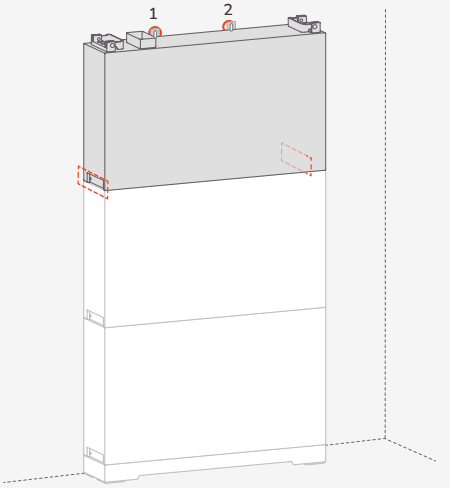

## 8

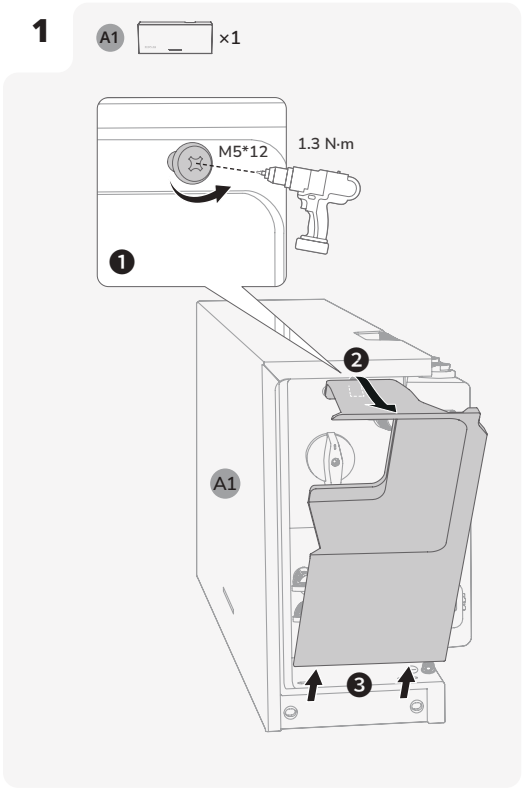
B1 ×1 B2 ×2 B3 ×4 A10 ×2

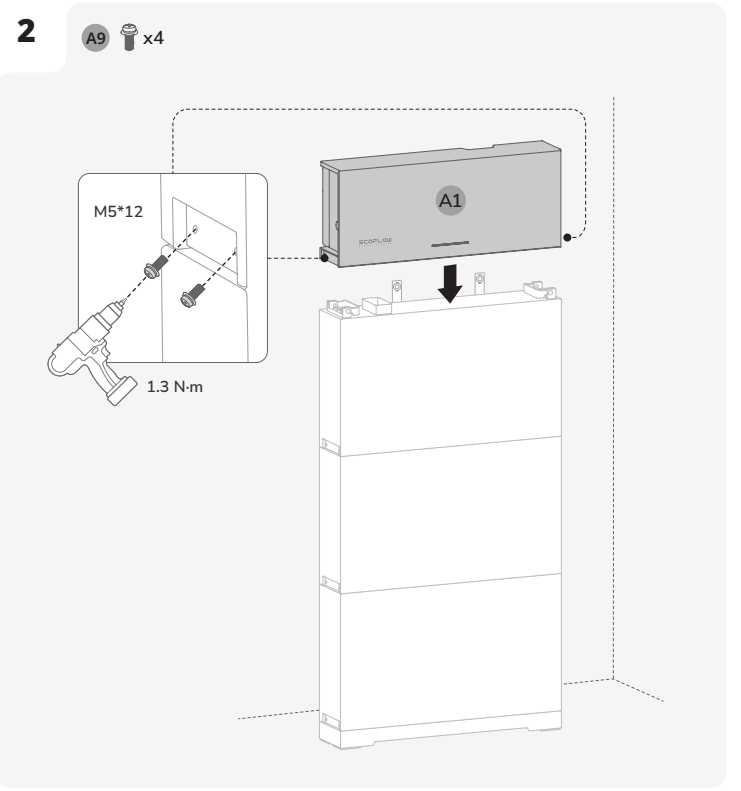



## 9

B1 ×1 B2 ×2 B3 ×4 A10 ×2



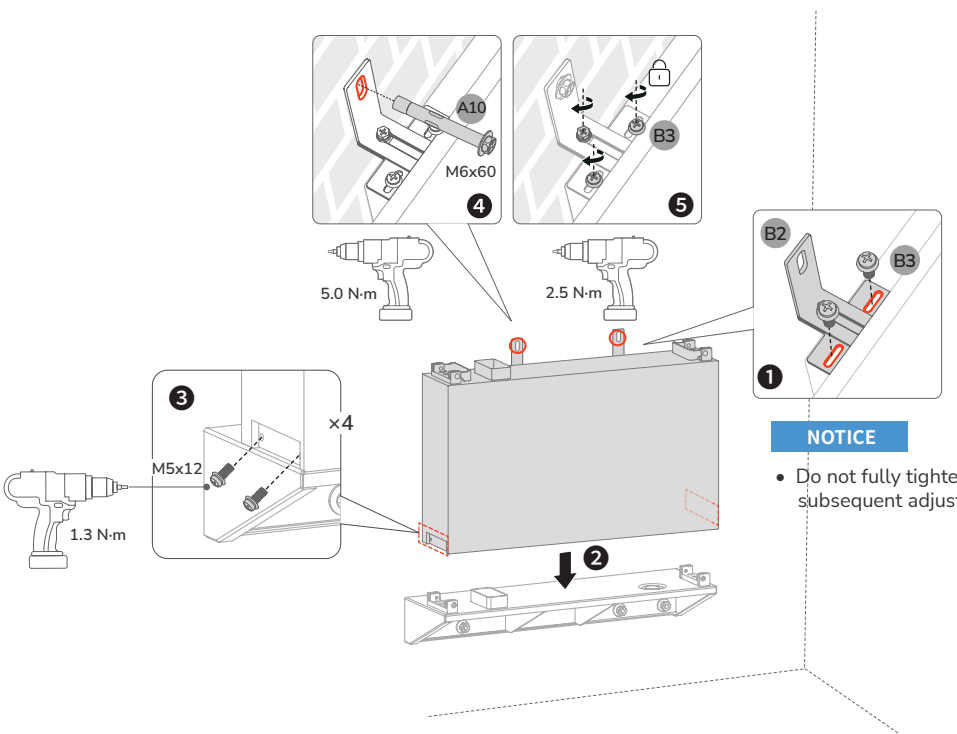



## Method 2: (Optional) Wall Mounted

**NOTICE**

- For details about wall mounted installation, see the installation guide that comes together with the EcoFlow PowerOcean Wall-Mounted Battery Base.

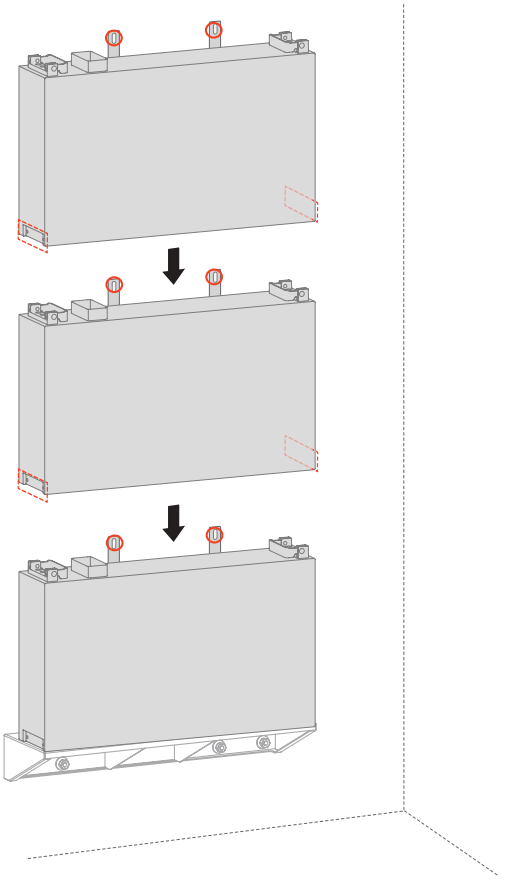



**NOTICE**

- Do not fully tighten to allow for subsequent adjustments

NOTICE

- Install the remaining batteries and the inverter as shown in the method 1.



# Electrical Connection

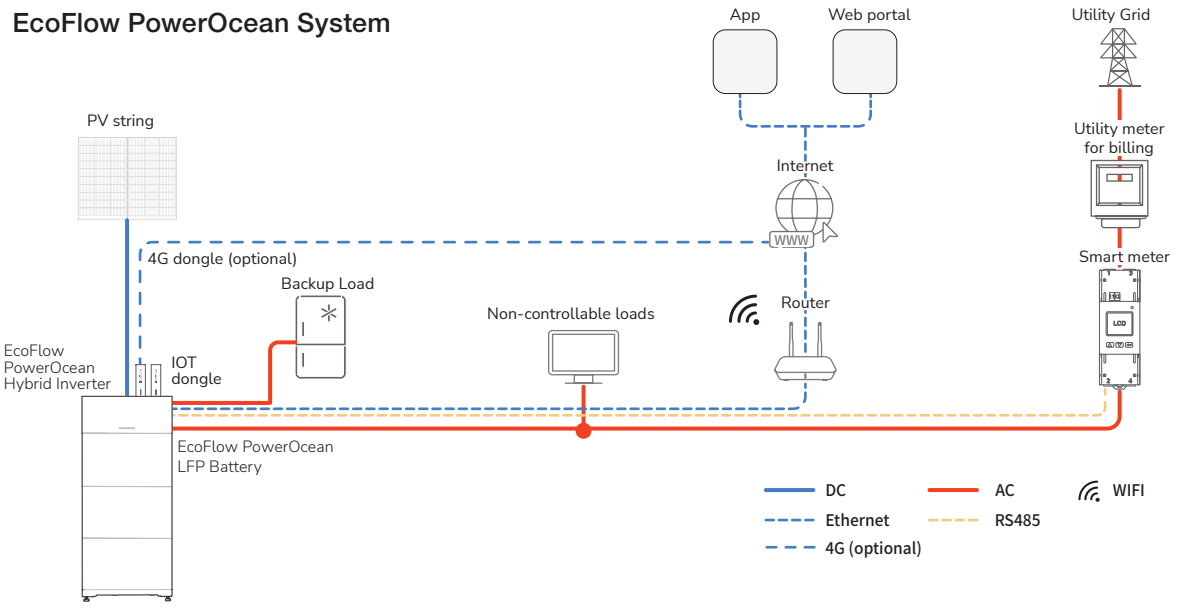
CAUTION

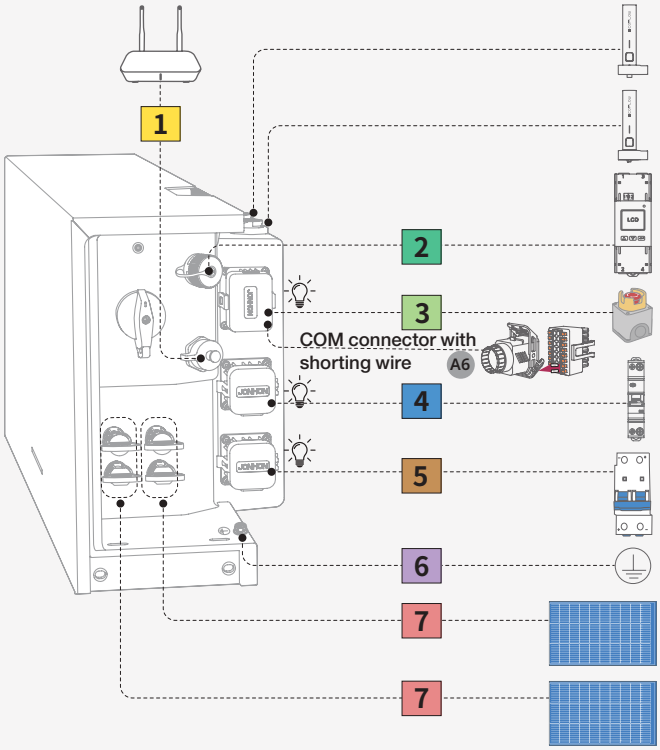
- All electrical connections must be carried out by a professionally trained and certified electrician.

NOTICE

- Please purchase cables that meet local certification standards.
- Do not remove the protective cap of unused terminals. Otherwise, the IP rating of the inverter will be affected.
- The cable colors shown in the figures are for reference only. Select an appropriate cable according to the local standards.

## EcoFlow PowerOcean System






**- (Optional) EcoFlow 4G Dongle ESS(EU)**
- For 4G network
- Sold separately

**- EcoFlow IOT Dongle ESS (Must be configured)**
- For wireless network

**- Smart meter**
- Supports power sampling
- Sold separately

**- (Optional) Emergency Stop (EPO)**
- Sold separately

**- Residual Current Breaker with Over-Current (RCBO)**
- Not included

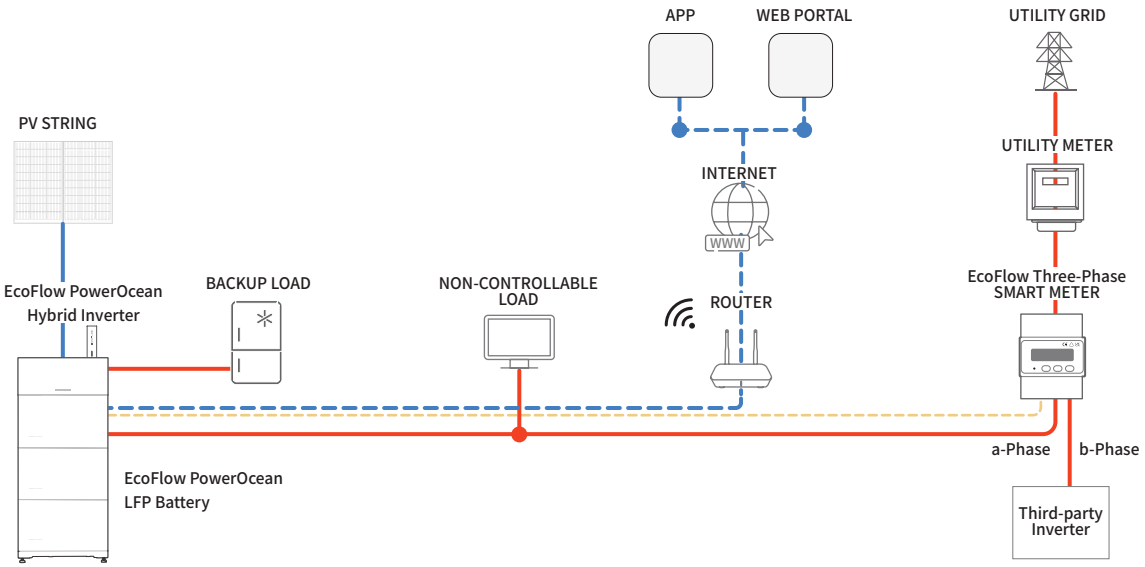
**- AC breaker**
- Recommended: an AC circuit breaker with a rated current of 32 A
- Not included

**- PV string**
- EcoFlow PowerOcean Hybrid Inverter supports the input from two PV strings.
- Sold separately

| | | |
|---|---|---|
| 1 **Ethernet cable (optional)**<br>CAT 5e or higher shielded network cable | 4 **Backup cable**<br>6 mm² to 8 mm² | 7 **PV Input cable**<br>Conductor cross-sectional area: 4 mm² to 6 mm² with a rated voltage greater than or equal to 600V DC |
| 2 **Smart meter communication cable**<br>CAT 5E 8*0.2mm² | 5 **Grid cable**<br>6 mm² to 8 mm² | Connectors with JONHON trademark supplied by Avic Jonhon Optronic Technology Co., Ltd. |
| 3 **COM terminal communication cable-EPO (optional)**<br>Shielded Twisted Pair 2*0.5mm² | 6 **PE cable**<br>6mm² | |

## (Optional) Integrating Existing PV System to the EcoFlow PowerOcean System

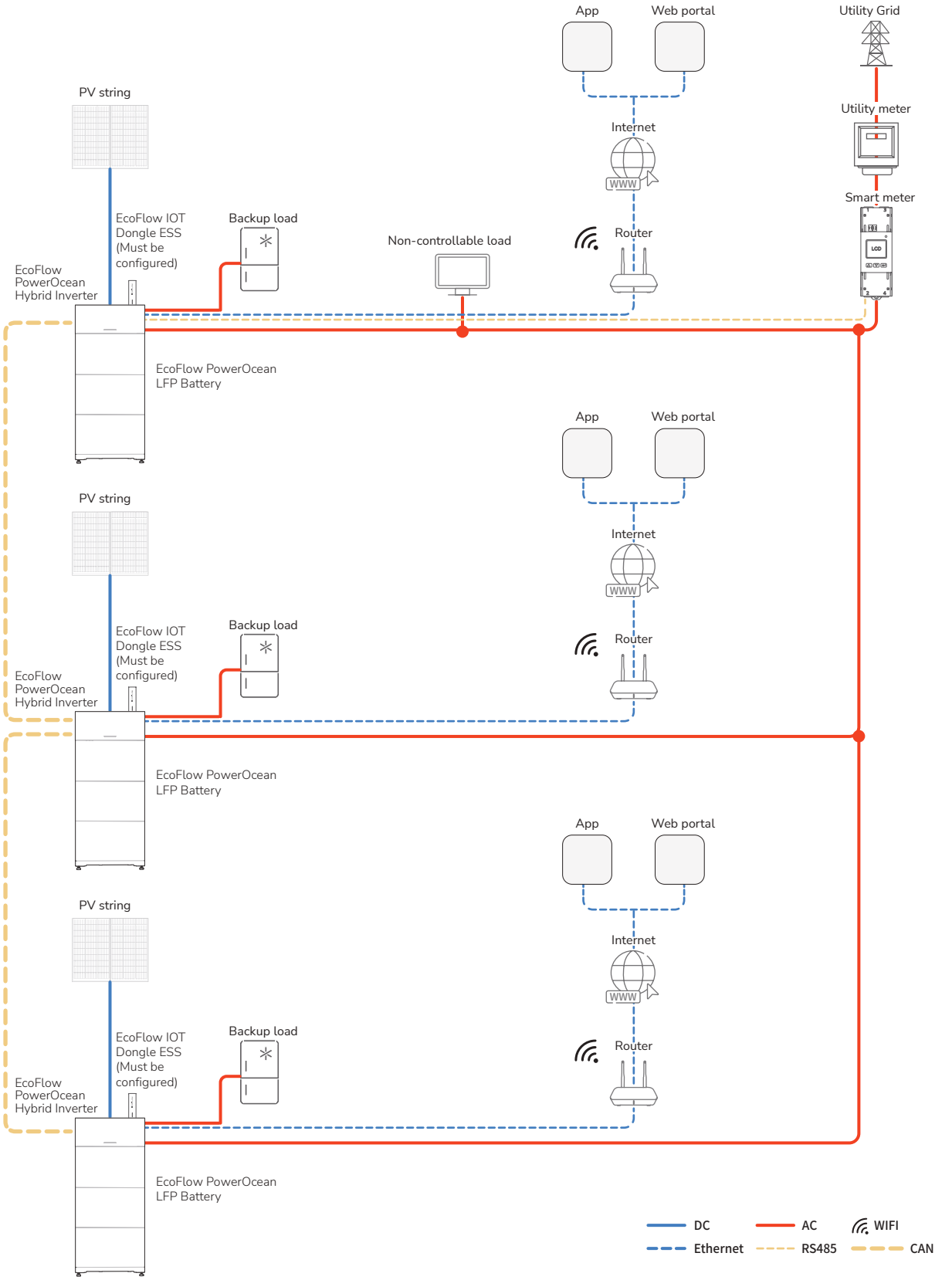
EcoFlow PowerOcean system is compatible with any single/three-phase PV grid-tied system. An existing PV system can be integrated to be a PV Energy Storage System (ESS) by connecting to the GRID terminal of the PowerOcean hybrid inverter. The power generation from the existing PV inverter will be firstly provided to the loads and then charge the battery. When the feeding power of third-party inverter is less than about 200W, it will not charge the battery. With the self-powered mode of the EcoFlow PowerOcean system, the self-consumption rate of the new system, and the self-sufficiency rate of residential energy will be greatly improved, reducing electricity costs.



## (Optional) EcoFlow PowerOcean System Cascading

**NOTICE**

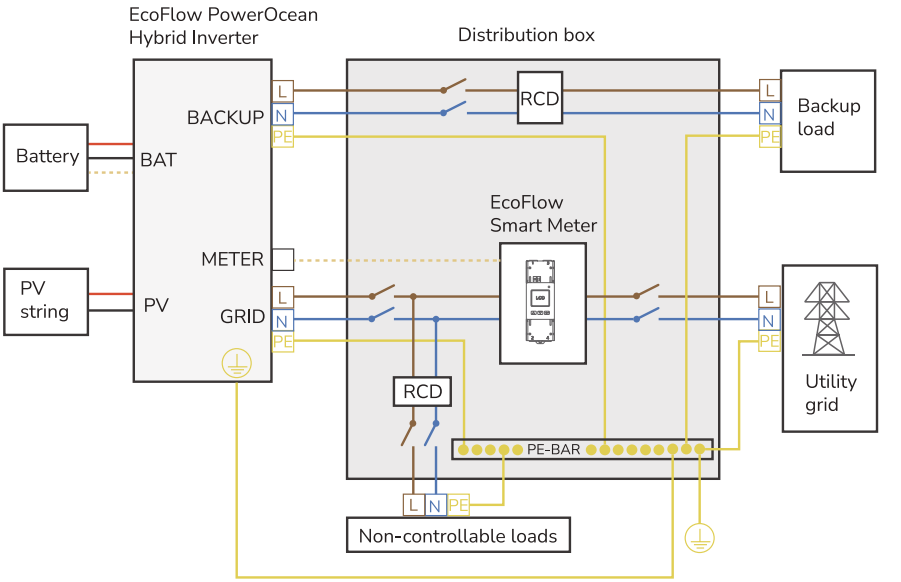
- In the PowerOcean cascading scenario, the primary and secondary inverters are both EF HD-P1-(3K-6K)-S1, and a maximum of three EF HD-P1-(3K-6K)-S1 can be cascaded.
- In the PowerOcean cascading scenario, the three EF HD-P1-(3K-6K)-S1 connected to the power grid must meet the local power grid requirements.



## EcoFlow PowerOcean System Wiring Diagram

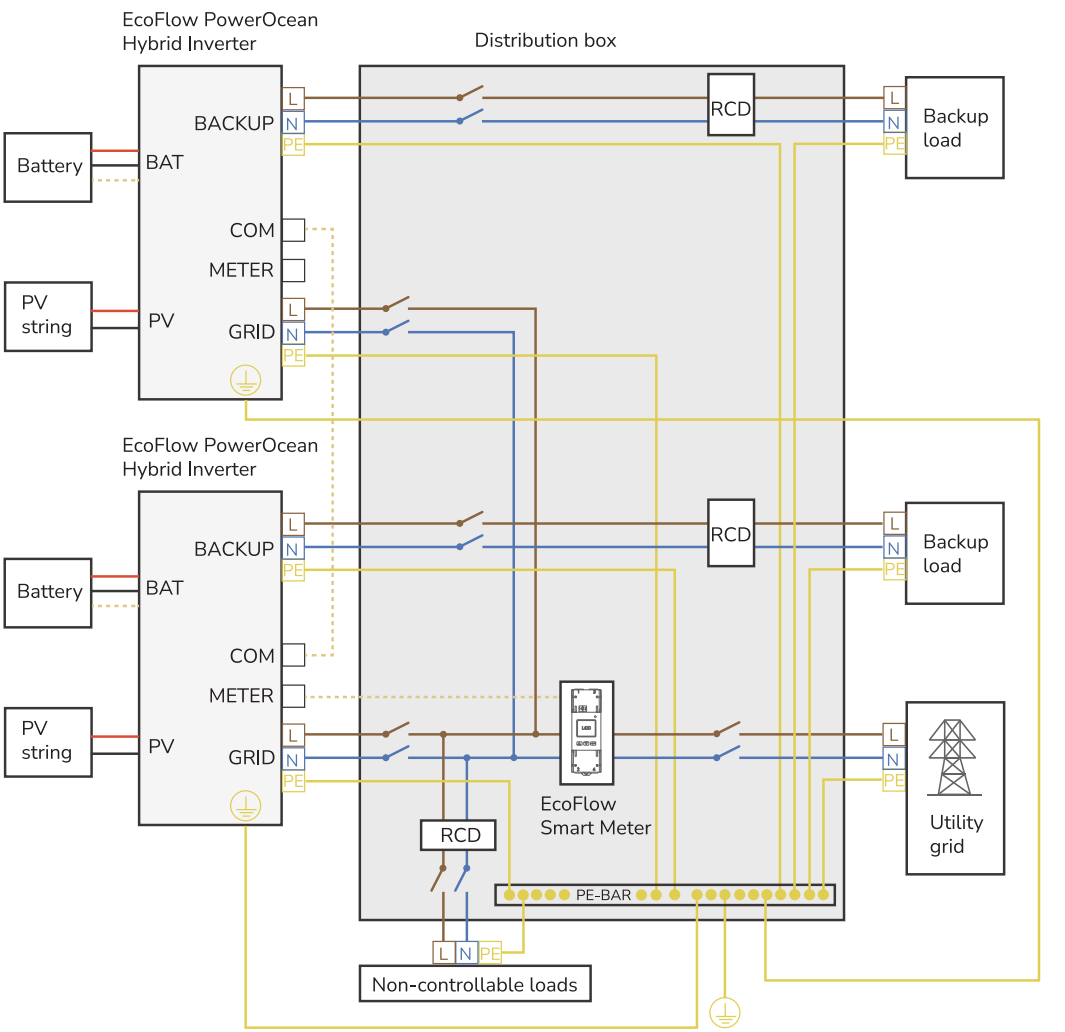
**NOTICE**

- N and PE cables should be separately wired in the Main Panel.
- A double-pole double-throw switch (DPDT for short) is recommended to be configured on the BACK-UP side for convenient maintenance.

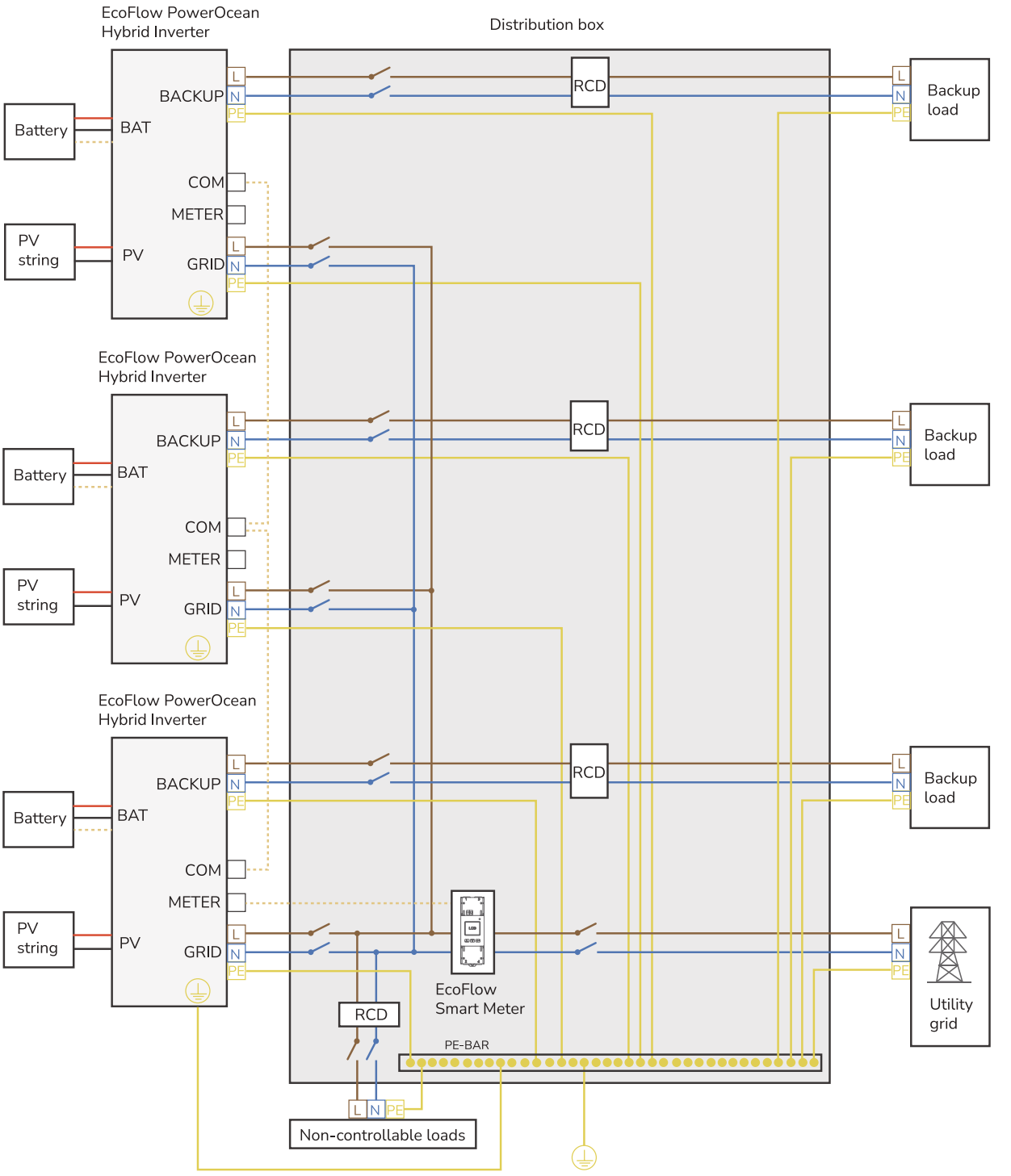



## (Optional) EcoFlow PowerOcean Cascading Wiring Diagram

### 2 Inverters Cascading Wiring Diagram



### 3 Inverters Cascading Wiring Diagram

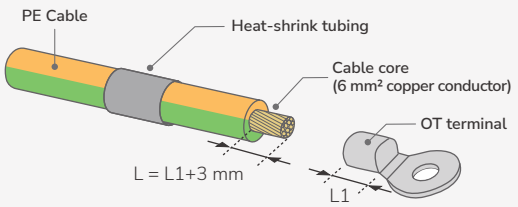


## Connecting PE Cables

**NOTICE**

- Ensure that the PE cable is connected securely.
- Wrap the wire crimping area with heat shrink tubing or insulation tape. The heat shrink tubing is used as an example.
- When using a heat gun, protect the equipment from being scorched.
- It is recommended that silica gel or paint be used around the ground terminal after the PE cable is connected.

**1**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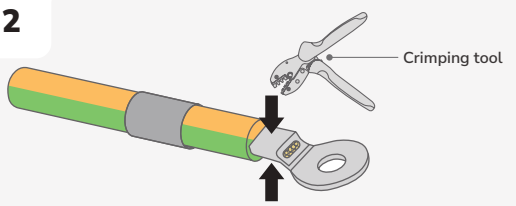
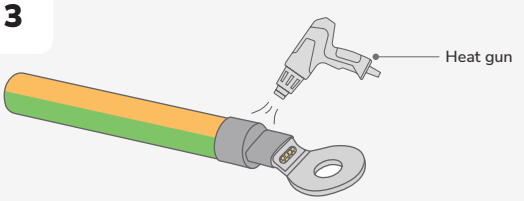
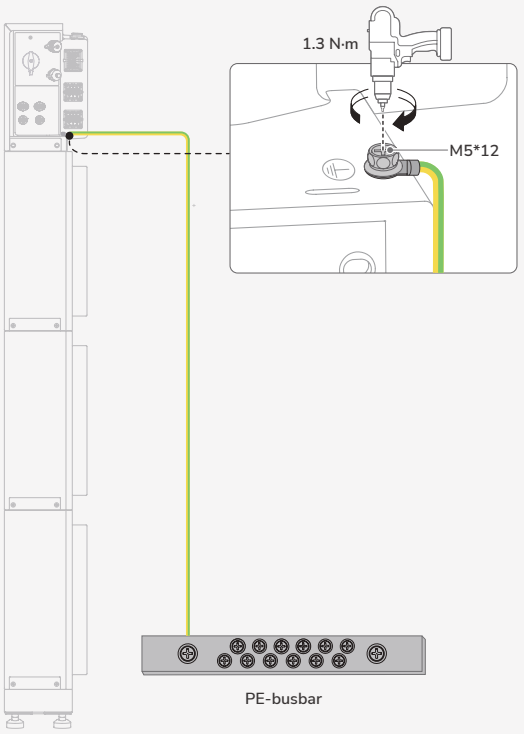



**3**




**4**



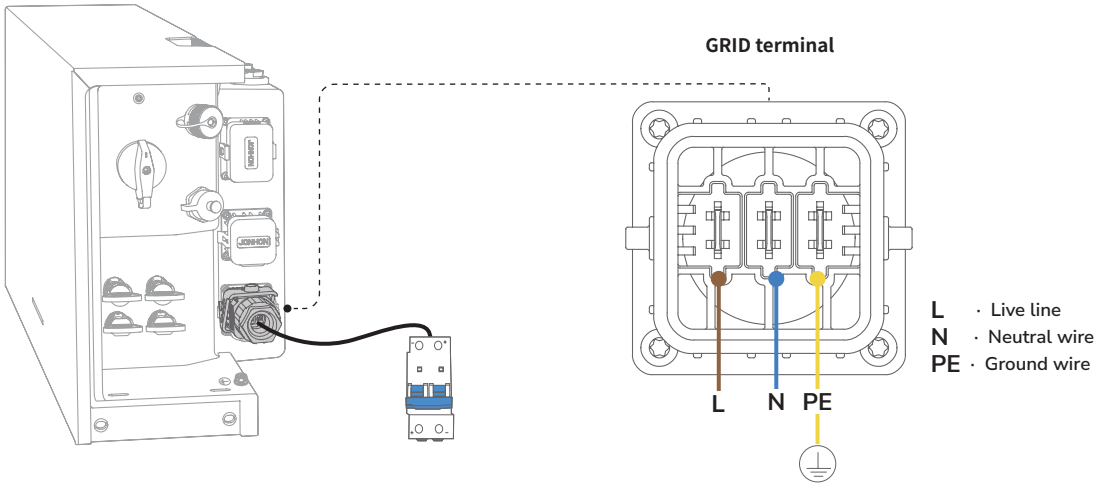

## Connecting GRID Cables

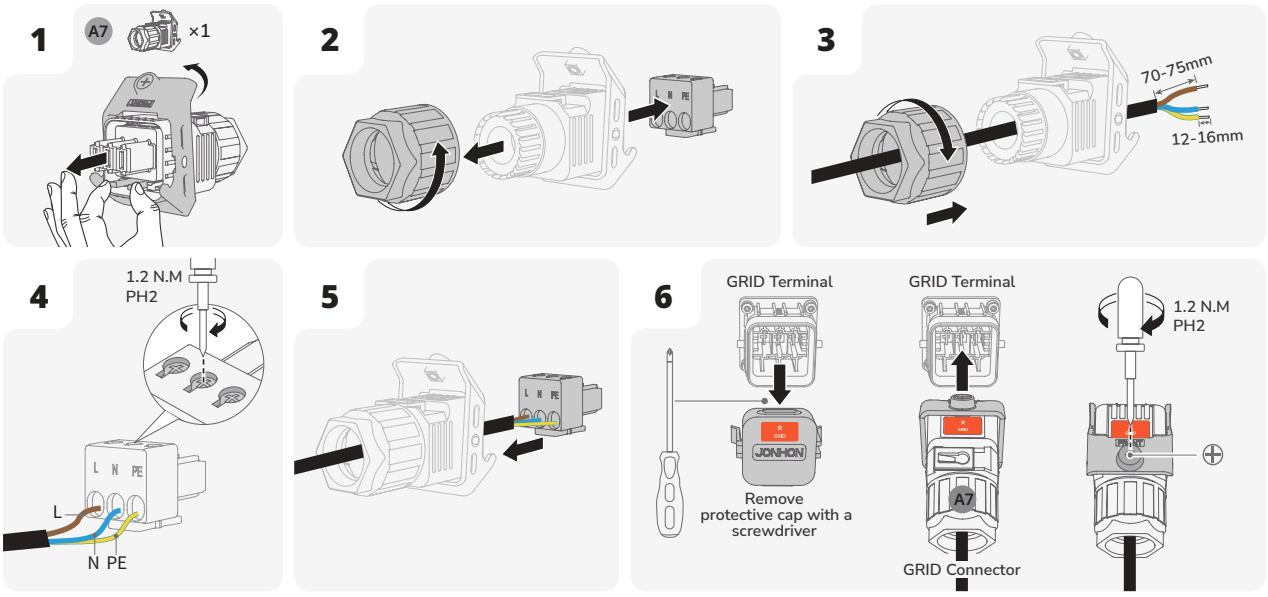
**CAUTION**

- Before installing, operating, and maintaining the equipment, always disconnect it from all power.
- Do not connect loads between the inverter and the AC switch that directly connects to the inverter.
- Ground the PE hole of GRID connector and the equipment enclosure.
- Do not connect the GRID connector to the BACKUP terminal of the inverter.

**NOTICE**

- RCD with rated residual operating current of 100 mA (AC-GRID) and 30mA (AC-BACKUP) would be recommended if there is additional protection by RCD shall be provided for local electrical installation, while the use of an RCD with lower rated residual operating current is also permitted if it is required by the specific local electrical codes.
- In the PowerOcean cascading scenario, each cascaded EF HD-P1-(3K-6K)-S1 needs to be connected to an RCD alone. Do not connect all cascaded EF HD-P1-(3K-6K)-S1 to the same RCD of higher rated current.





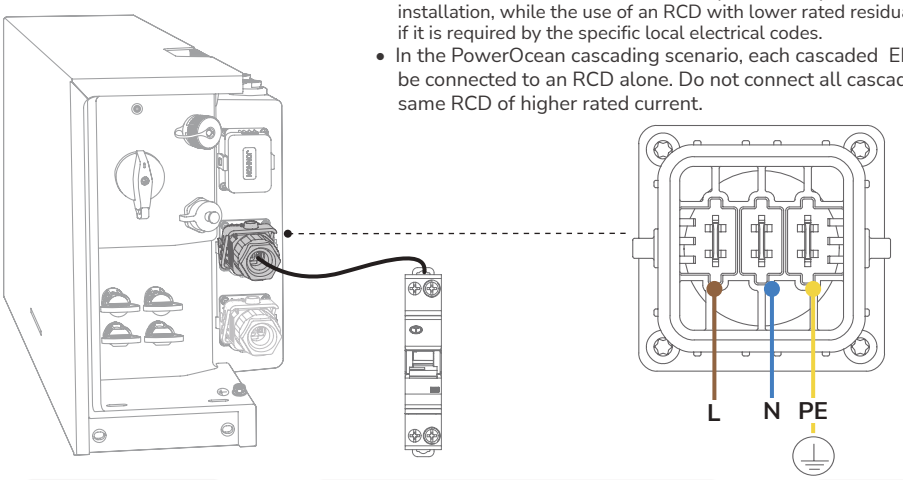

## Connecting BACKUP Cables

**CAUTION**

- Before installing, operating, and maintaining the equipment, always disconnect it from all power.
- Do not connect the BACKUP connector to the GRID terminal of the inverter.
- It is not recommended to connect loads with high starting power to BACKUP terminal, such as vacuum cleaner, air conditioner, etc.

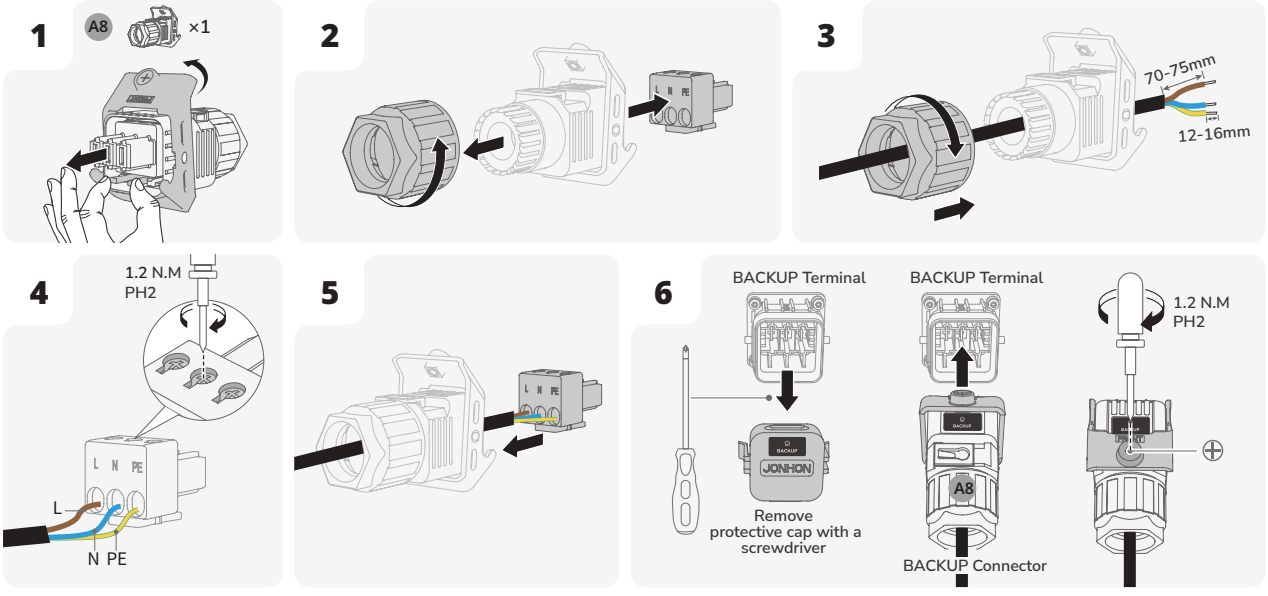
**NOTICE**

- RCD with rated residual operating current of 100 mA (AC-GRID) and 30mA (AC-BACKUP) would be recommended if there is additional protection by RCD shall be provided for local electrical installation, while the use of an RCD with lower rated residual operating current is also permitted if it is required by the specific local electrical codes.
- In the PowerOcean cascading scenario, each cascaded EF HD-P1-(3K-6K)-S1 needs to be connected to an RCD alone. Do not connect all cascaded EF HD-P1-(3K-6K)-S1 to the same RCD of higher rated current.




**BACKUP terminal**

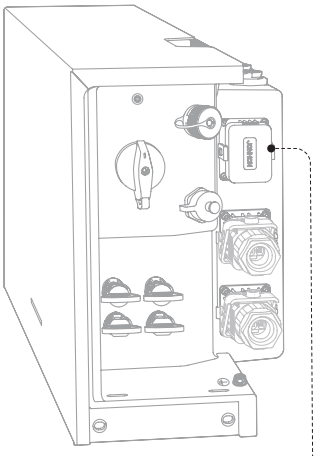
**L** · Live line
**N** · Neutral wire
**PE** · Ground wire



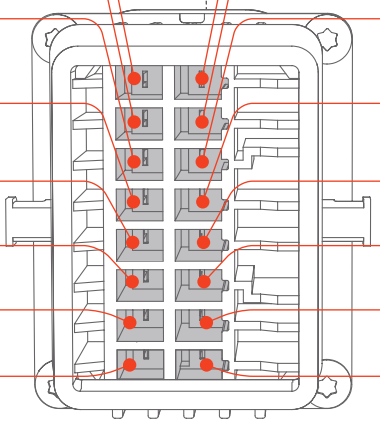
## Installing COM Connector With Shorting Wire

**NOTICE**

- COM terminal supports logic interface connection. Logic interface is required by some local regulations that can be operated by a simple switch or contactor.
- When the switch is closed, the inverter can operate normally.When the switch is opened, the inverter will reduce its active power to zero within 5s.
- Pin14 and Pin16 of COM terminal is used for the logic interface conneaction.
- If no additional EPO is configured, PIN 14 and PIN 16 must be connected using a wire.



COM terminal



**1 CAN0H**

**3 CAN0L**

**5 CAN3H**
Inverter cascading communication H
(Reserved)

**7 CAN3L**
Inverter cascading communication L
(Reserved)

**9 CANH**
Inverter cascading communication H

**11 CANL**
Inverter cascading communication L

**13 CAN3H**
Inverter cascading communication H

**15 CAN3L**
Inverter cascading communication L

**2 SG_Ready11**

**4 SG_Ready12**

**6 SG_Ready21**

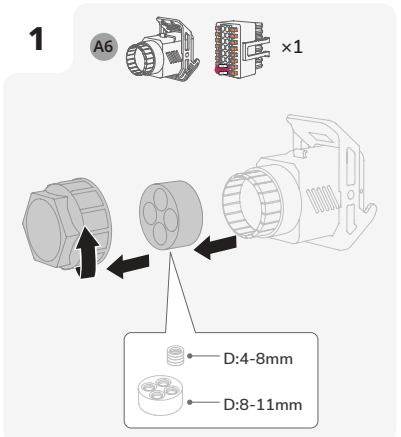
**8 SG_Ready22**

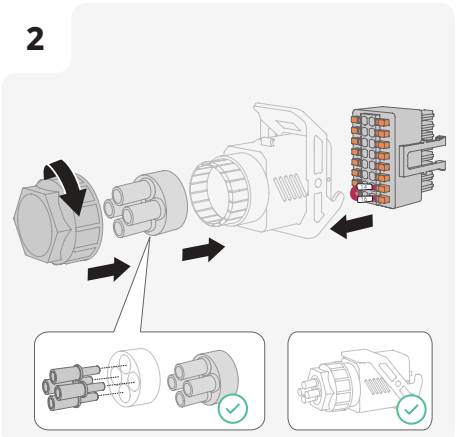
**10 AGND1**
Inverter cascading sync signal grounding

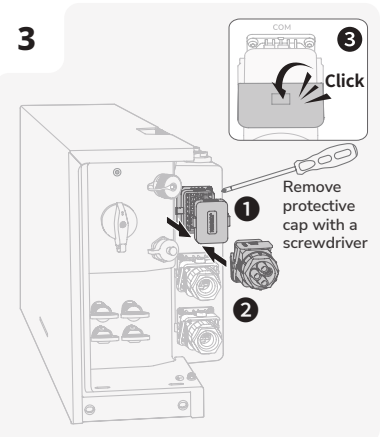
**12 SYN**
Sync signal

**14 EPO1_dry1**
Emergency Stop Input

**16 AGND1**
Emergency Stop Input



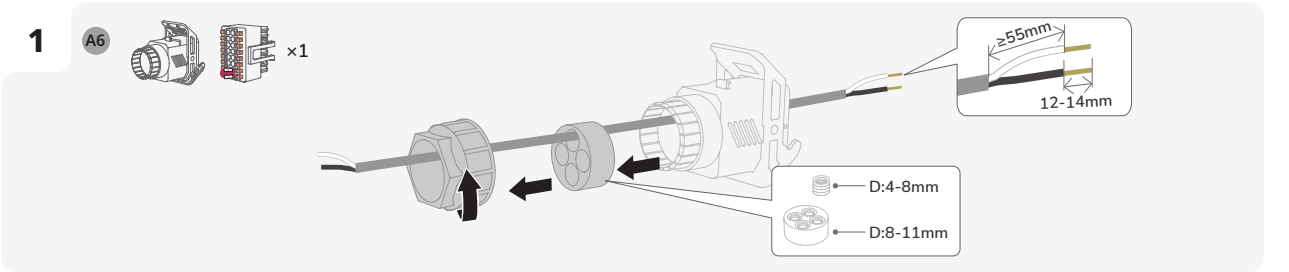



## (Optional) Installing Emergency Stop (EPO)

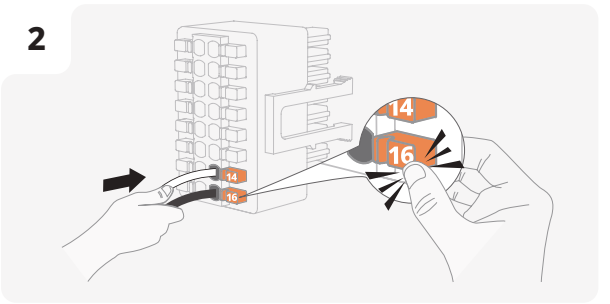
**NOTICE**

- Before installing EPO, please remove the shorting wire between PIN14 and PIN16.
- For more details about Emergency Stop, please refer to the user manual that comes together with it.

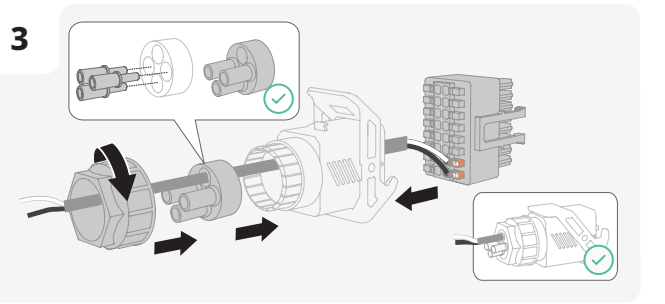
**1**



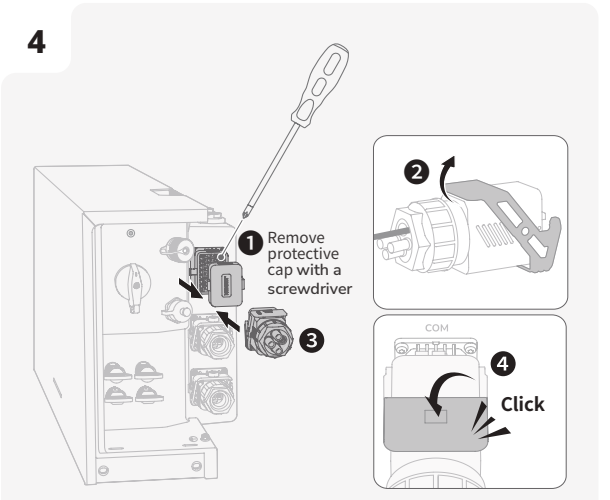

**2**



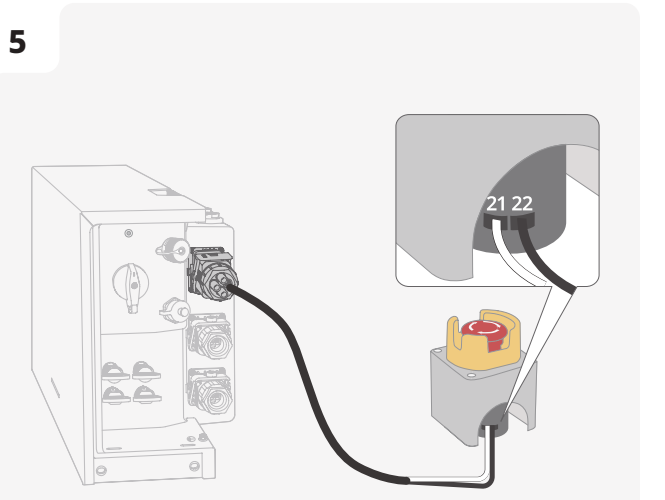

**3**



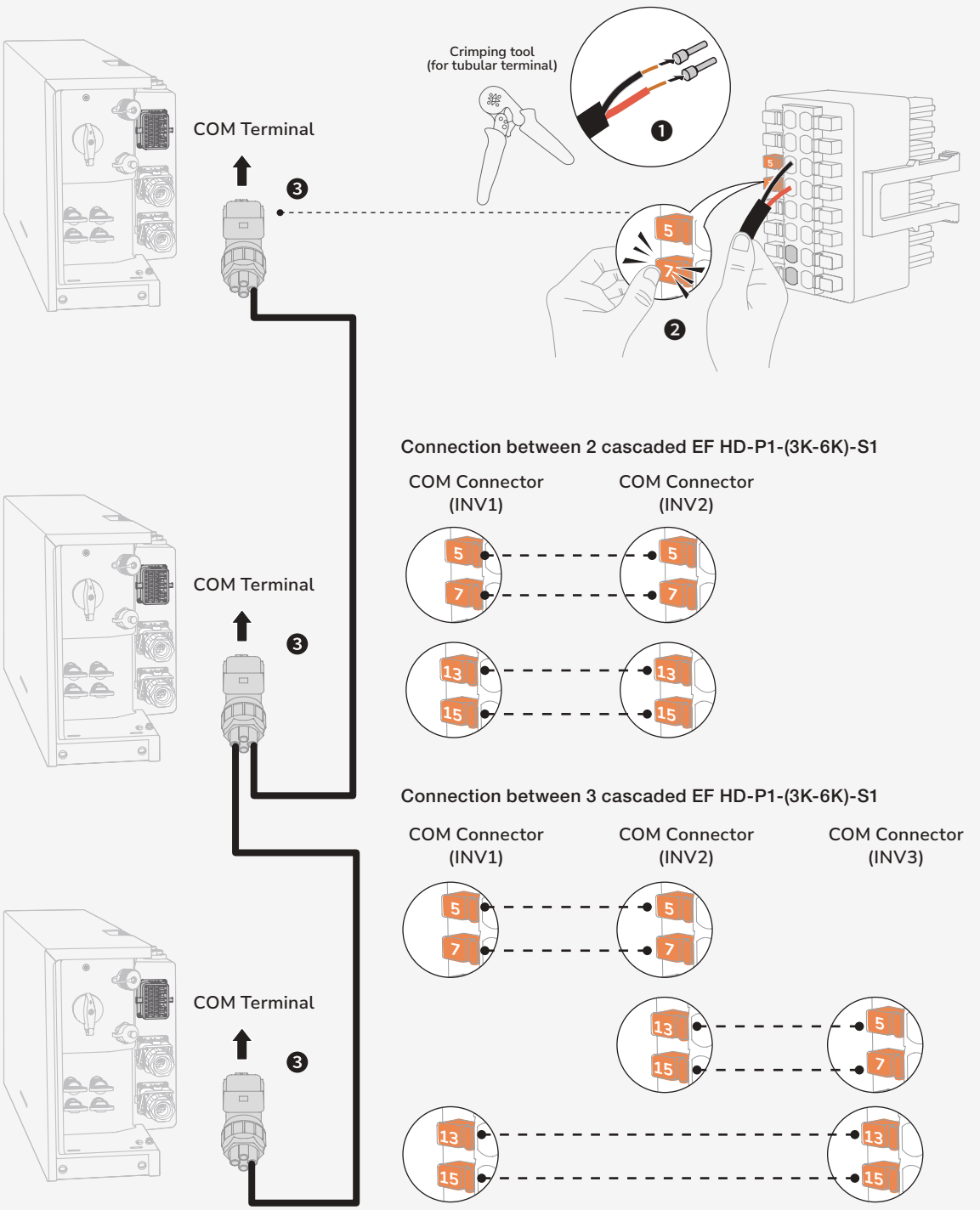
**4**




**5**



## (Optional) Connecting Communication Cables between the cascaded EF HD-P1-(3K-6K)-S1

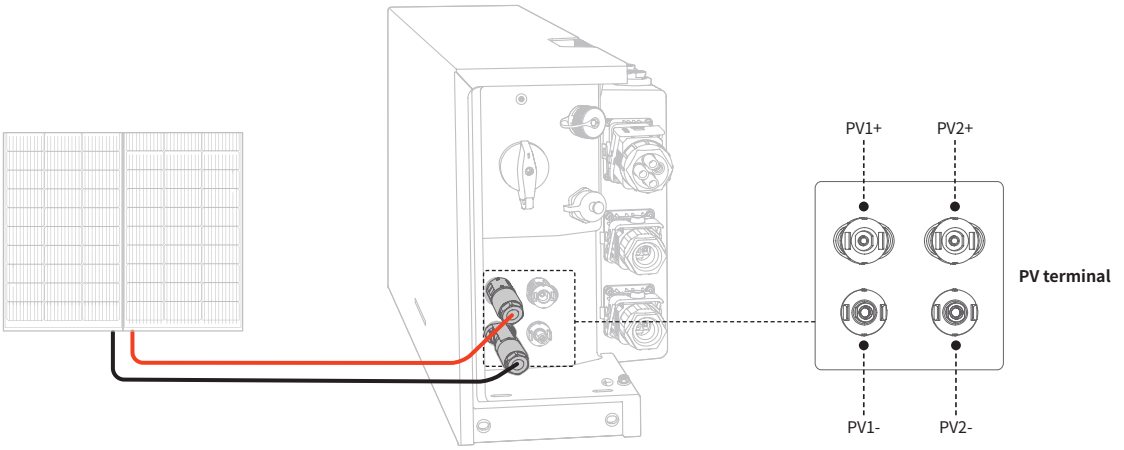
## Connecting PV Input Cables

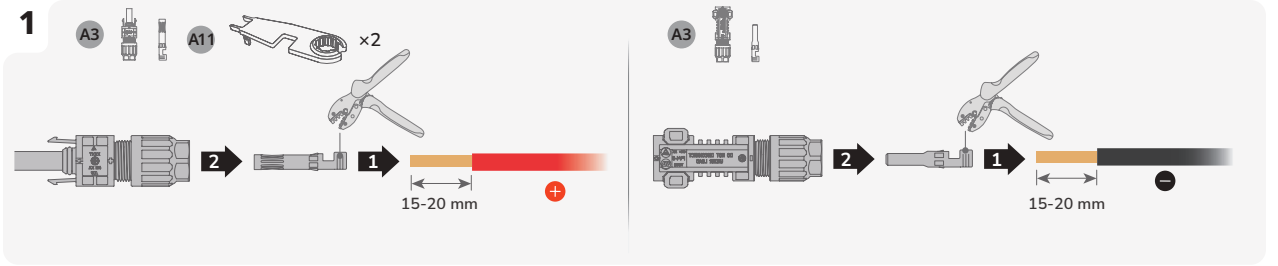
**DANGER**

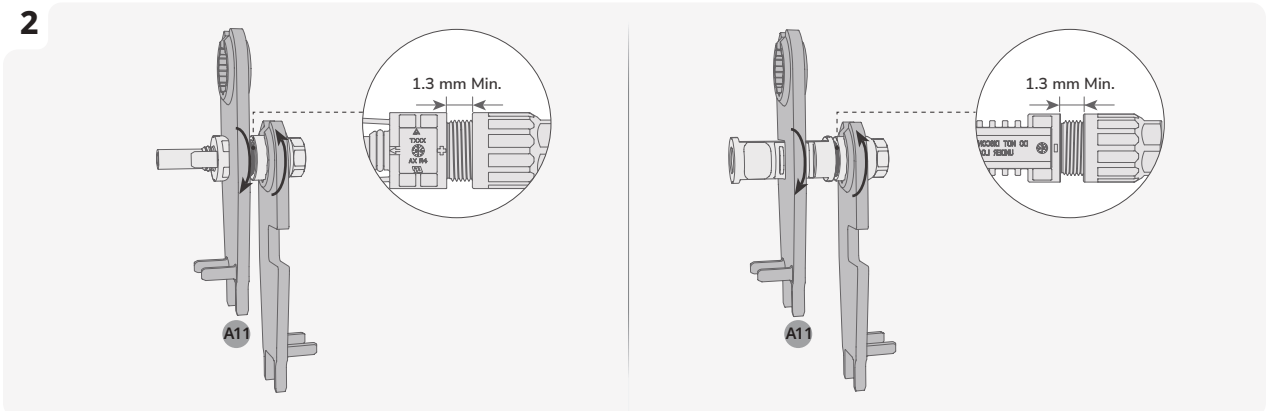
- Before connecting the PV input cables, ensure AC switch connected to the inverter and the PV SWITCH on the inverter are OFF. Failing to do so may result in electric shocks.
- The PV string will generate lethal high voltage when exposed to sunlight. Disconnect the PV cable of PV string before connecting DC power.
- Before connection, ensure the polarity of the output of the PV array matches "PV+"/"PV-" symbols.
- Before connecting the PV input cables, ensure that the impedance between the positive/ negative terminals of the PV string and earth are larger than 1 MΩ. Do not ground the PV array positive/negative hole.
- When the inverter is running, it is not allowed to work on the PV input cables, such as connecting or disconnecting a PV string or a PV module in a PV string. Failing to do so may cause electric shocks.
- Do not remove Solarlok SAFE-TE Connectors of unused PV input terminal. Failing to do so may result in electric shocks.
- Ensure that the maximum DC voltage and the maximum short-circuit current of any string do not exceed the allowed range specified in the "Technical Parameters" of the User Manual.

**NOTICE**

- In order to avoid malfunction, please do not connect any PV modules that have a risk of leakage current to the inverter.
- In order to avoid lightning damage to the inverter, it is recommended to add a surge protection switch at the PV junction box.
- After the positive and negative connectors snap into place, slightly pull the PV input cables back to ensure that they are connected securely.
- It is not recommended that connect different brands or models of PV modules to one MPPT circuit, or connect PV modules of different orientation or angles to one PV string.

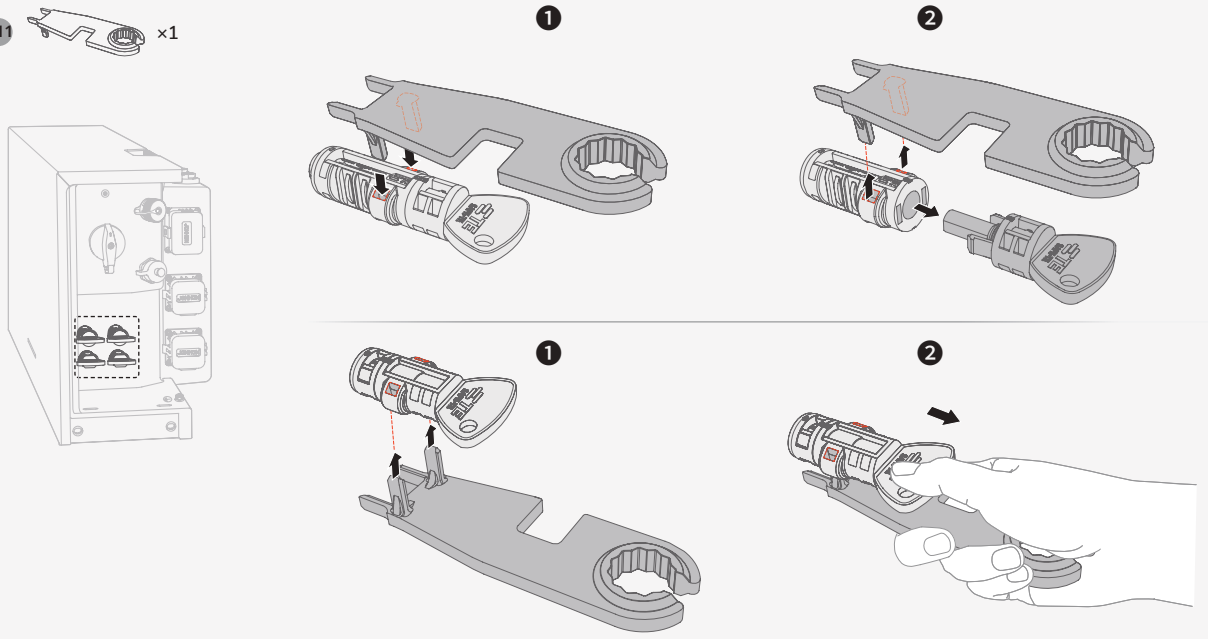


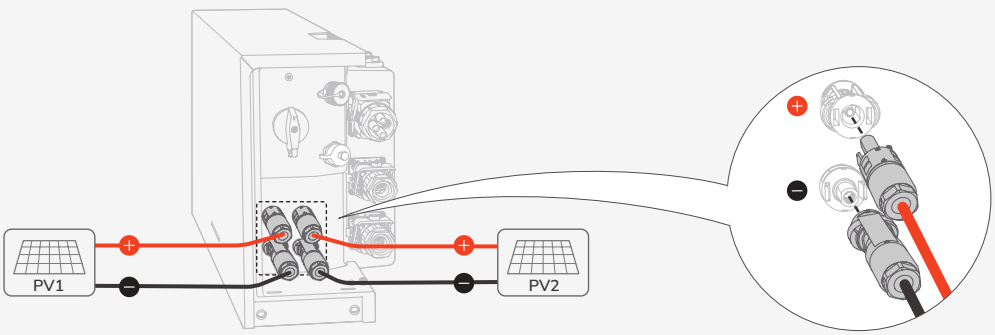



**REMOVE SOLARLOK SAFE-TE CONNECTORS**

A11 ×1




**CONNECT TO THE INVERTER.**



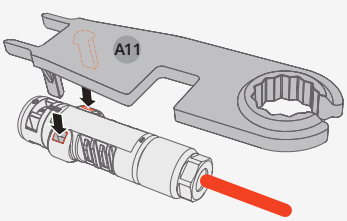

Set the multimeter to DC gear to measure the voltage at the DC position. If the voltage is a negative value, the PV input polarity is incorrect and needs correction. If the voltage is greater than 600 V, too many PV modules are configured to the same string. Remove some PV modules.

If the PV input cable is reversely connected and the PV SWITCH is set to ON, first set the PV SWITCH to the OFF position, then remove the positive and negative connectors, and correct the polarities of the PV input cables.

**REMOVING THE PV TERMINAL**

**WARNING** • Before removing the positive and negative connectors, ensure that the PV SWITCH is OFF.

A11 ×1



**NOTICE**

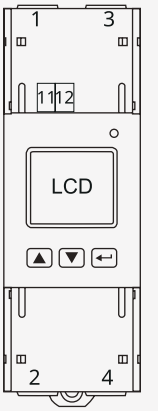
- It is recommend to use of CAT5 or higher rating network cable.
- Smart meter is sold separately, which has been preset parameters before delivered. Do not modify the relevant parameters.
- The compatibility of this product with smart meters may vary by regions and versions. For detailed instructions on the installation and wiring scheme of the smart meter for this product, please refer to the guide that comes together with the meter.
- As a result of the design change, there are two versions of the METER port of delivered inverters. The actual delivery may vary.

## Version 1

### SMART METER INSTALLATION

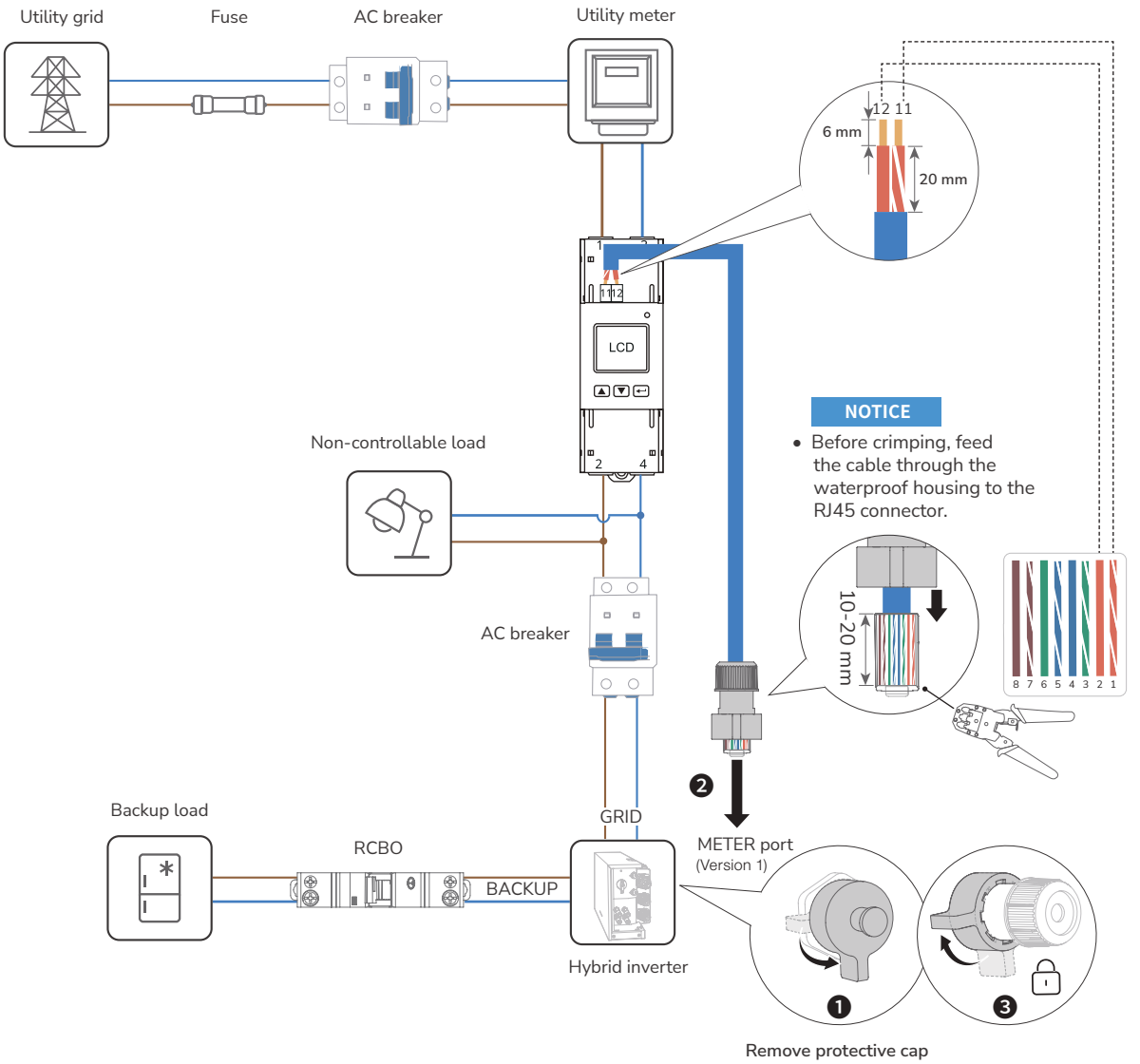
**1** **METER SAMPLING**
Access the home mains and connect the smart meter as shown in the diagram.

**2** **METER COMMUNICATION**
Connect communication port 11, 12 on the meter to the METER port of inverter.




| | |
|---|---|
| 1 | Grid L |
| 3 | Grid N |
| 11 | RS485 A |
| 12 | RS485 B |

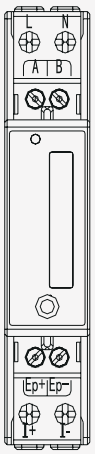
| | |
|---|---|
| 2 | Load L |
| 4 | Load N |



## SMART METER (WITH EXTERNAL CT) INSTALLATION

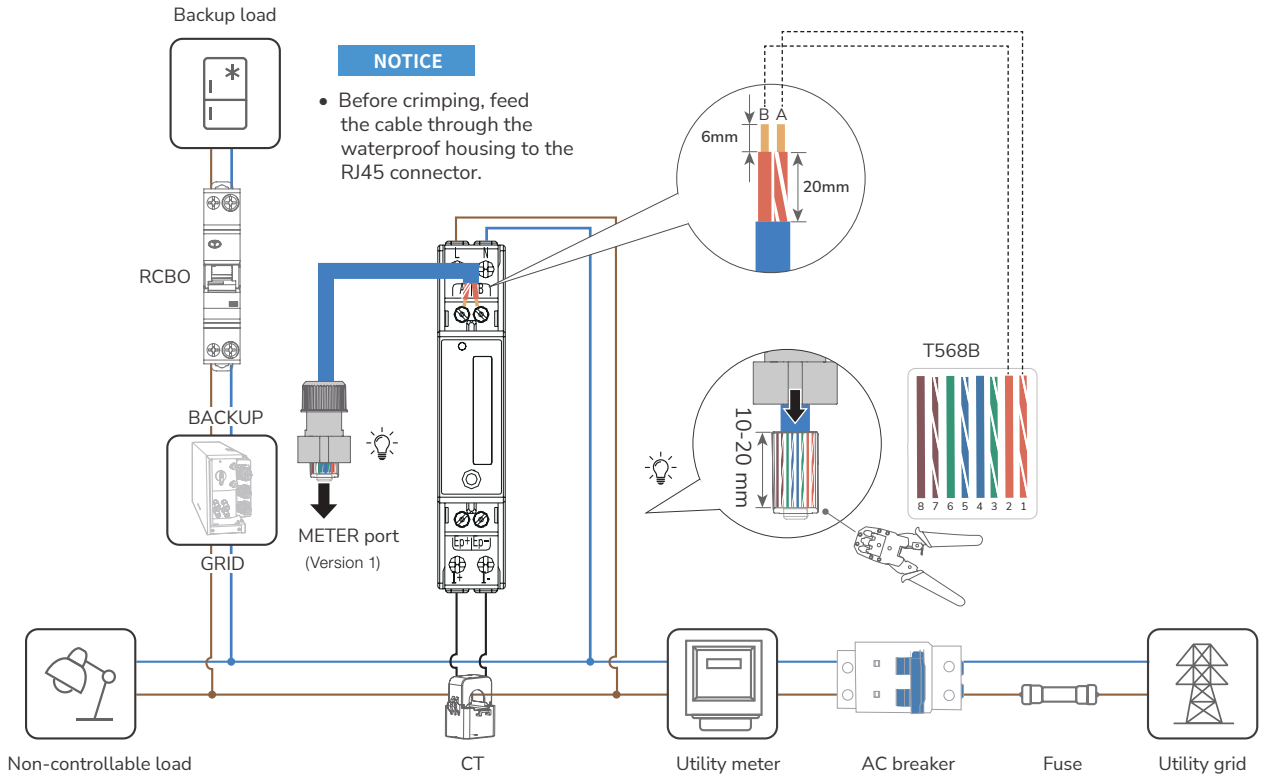
**1** **METER SAMPLING**
Access the home mains and connect the smart meter as shown in the diagram.

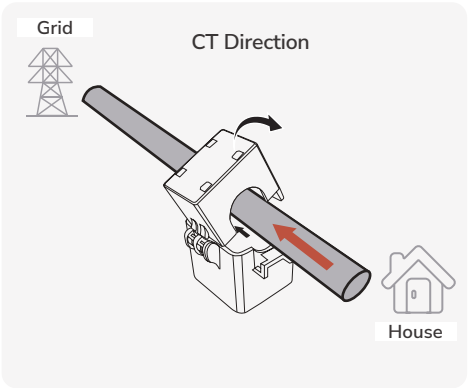
**2** **METER COMMUNICATION**
Connect communication port A, B on the meter to the METER port of inverter.




| | |
|---|---|
| L | Grid L |
| N | Grid N |
| A | RS485 A |
| B | RS485 B |

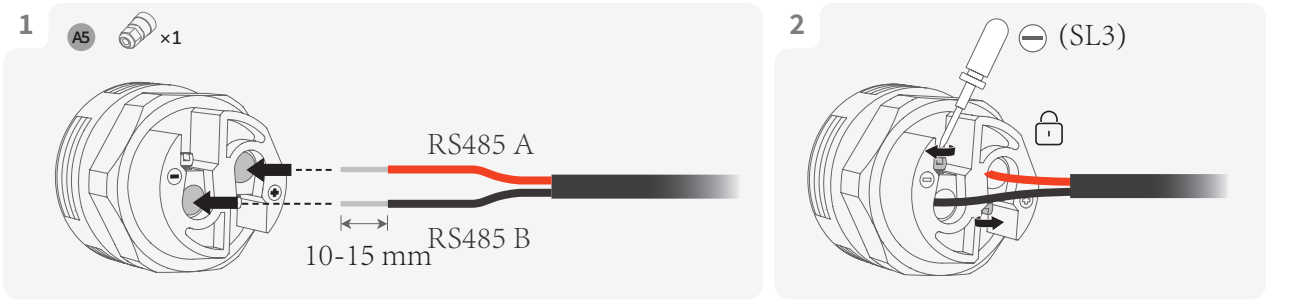
| | |
|---|---|
| I+ | Grid L CT |
| I- | |

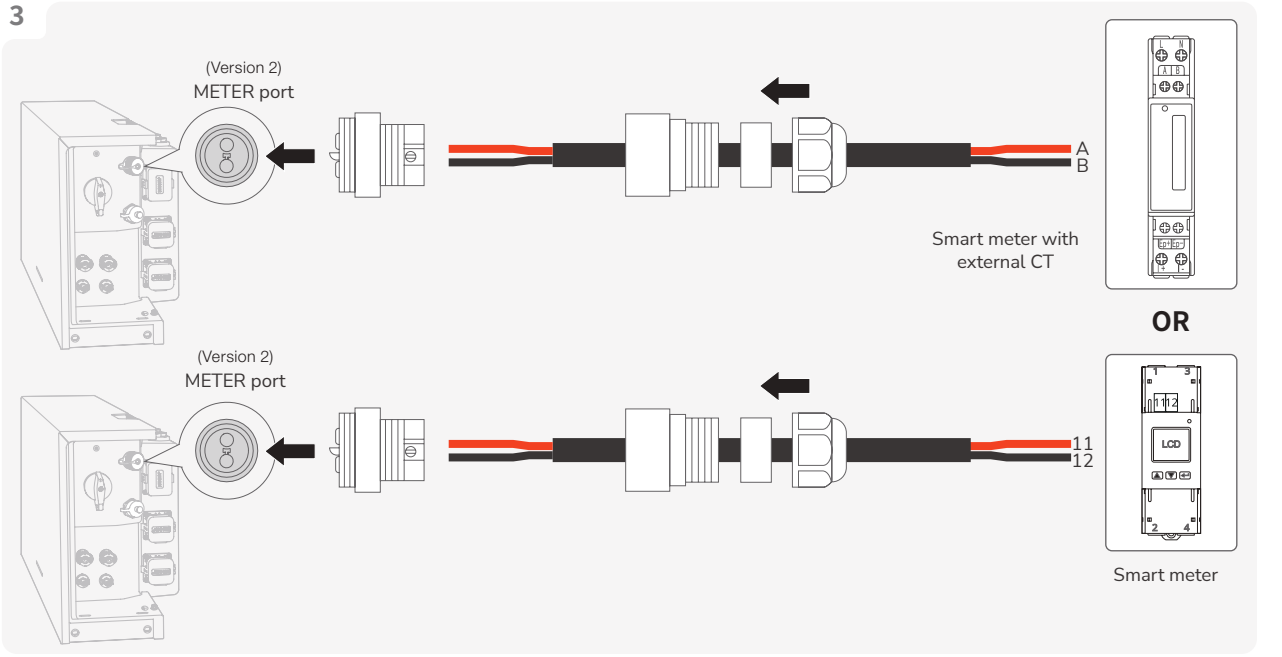


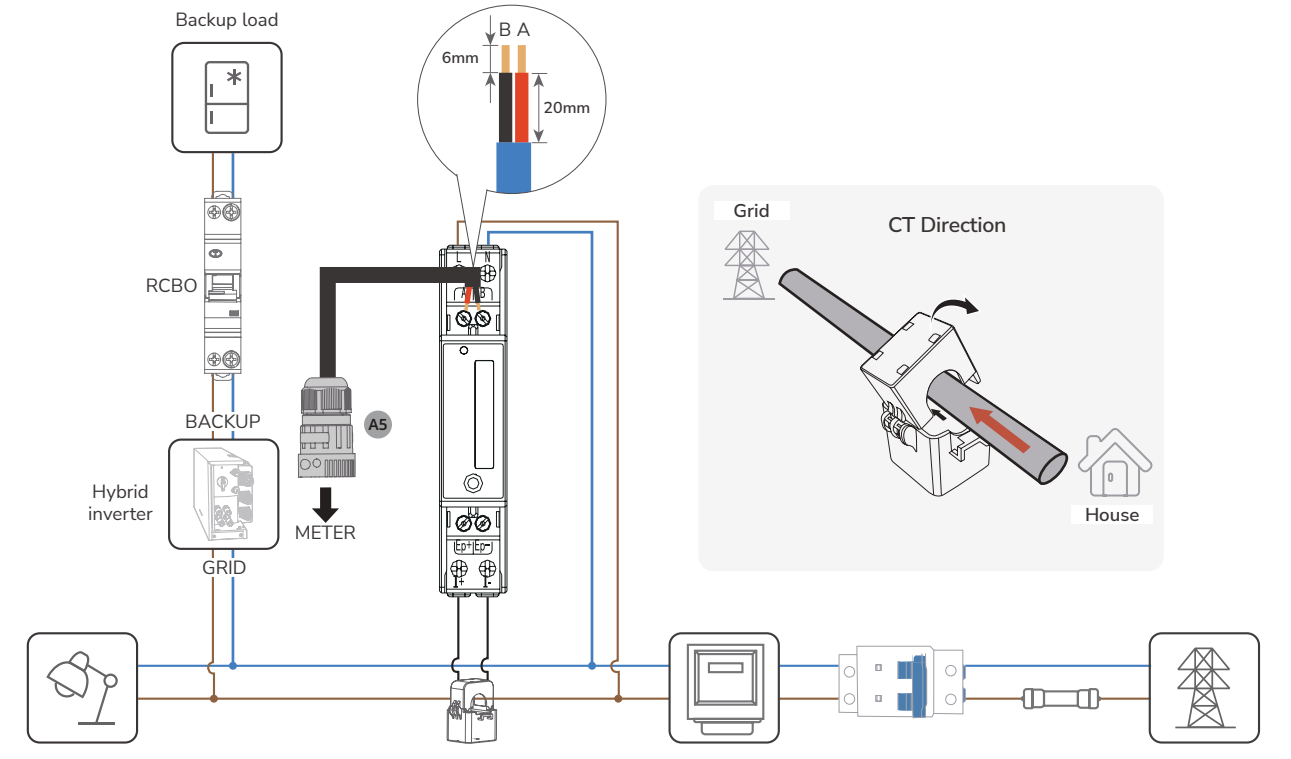



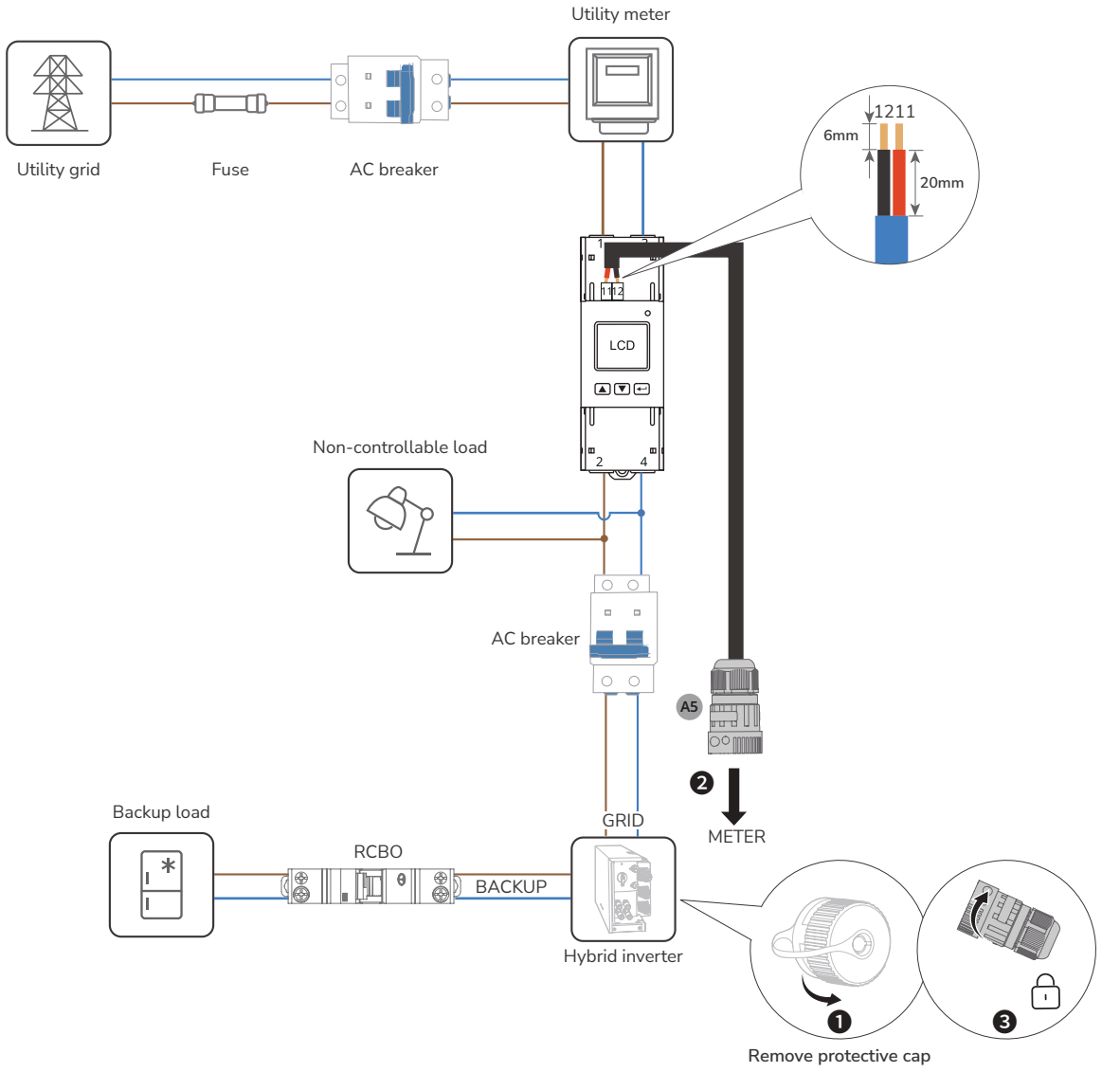
## Version 2

### ASSEMBLING A METER PORT CONNECTOR (RS485)



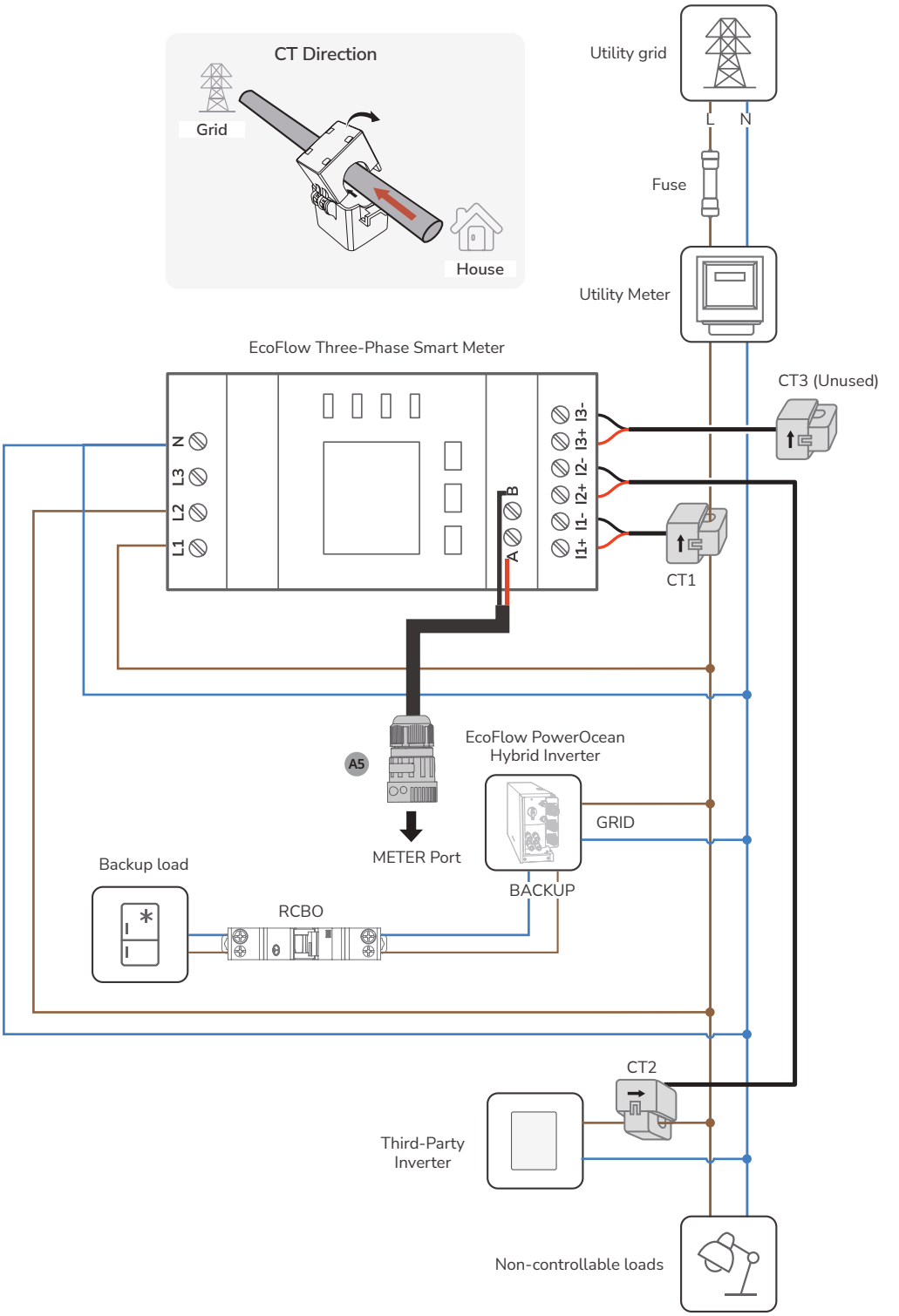




Utility meter
Utility grid
Fuse
AC breaker
1211
6mm
20mm
LCD
Non-controllable load
AC breaker
A5
METER
Backup load
RCBO
BACKUP
GRID
Hybrid inverter
Remove protective cap

## (Optional) Connecting Three-Phase Smart Meter to PowerOcean and Third-Party Inverter

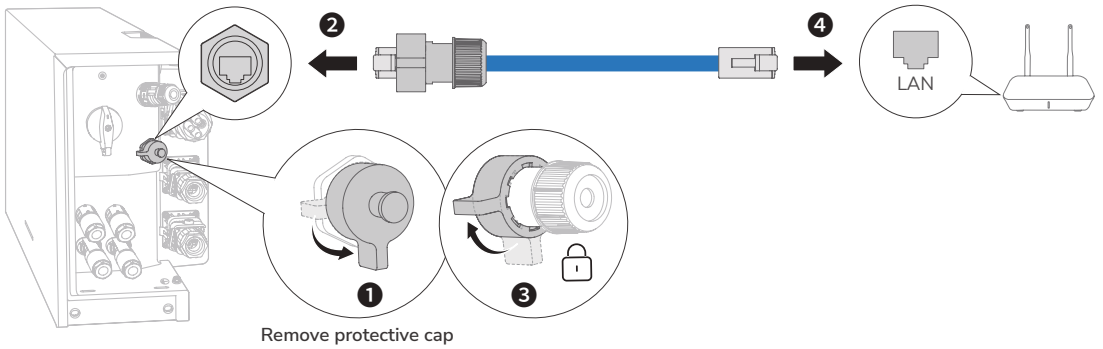
**NOTICE**

- It is recommend to use of CAT5 or higher rating network cable.
- Smart meter is sold separately, which has been preset parameters before delivered. Do not modify the relevant parameters.
- The compatibility of this product with smart meters may vary by regions and versions. For detailed instructions on the installation and wiring scheme of the smart meter for this product, please refer to the guide that comes together with the meter.
- As a result of the design change, there are two versions of the METER port of delivered inverters. The actual deliverables may vary.



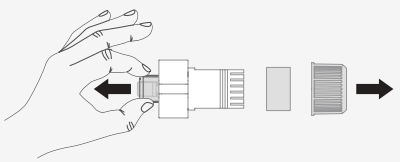
**NOTICE** • Use shielded CAT 5 or higher rating network cable for stable connection.

## • METHOD 1: VIA A WIRED NETWORK

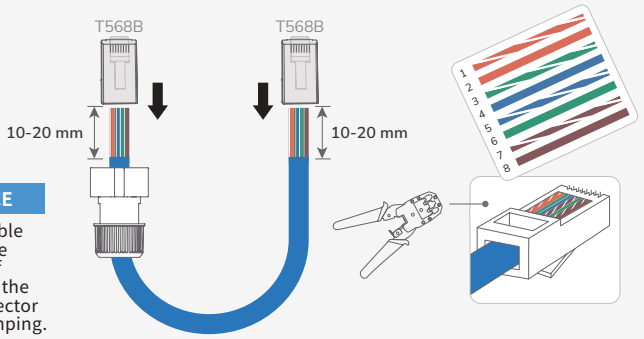



Remove protective cap

**1** A4 ×1



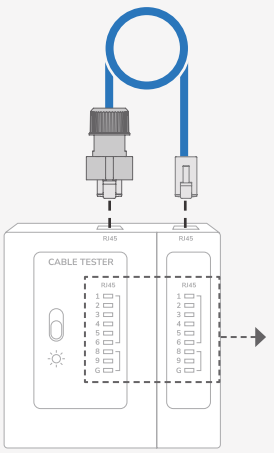
**2** Both ends of the network cable use the T568B wiring standard.



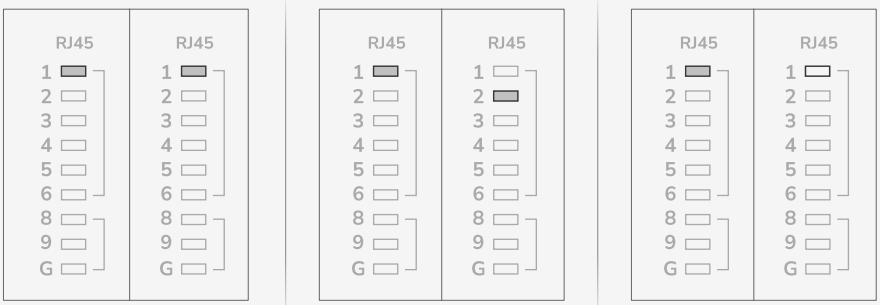

**NOTICE**

Run the cable through the waterproof housing to the RJ45 connector before crimping.

**3** Test network cable connection. If the LEDs of the two RJ45 ports light up in sequence, it indicates that the network cable is correctly wired and should be fully operational.




Ethernet Cable Tester




Ideal connection

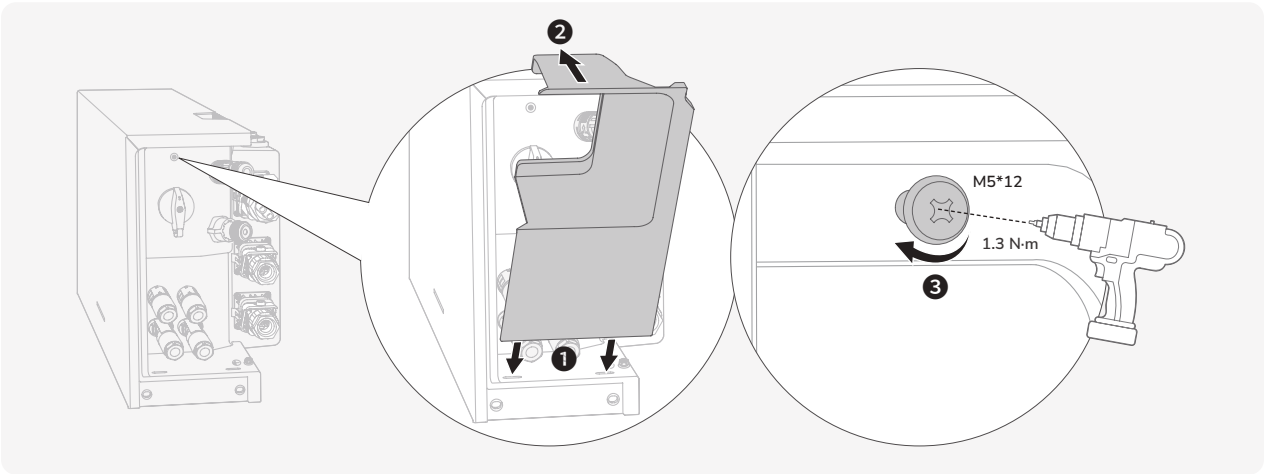
Incorrect wiring standard

Poor connection

## • METHOD 2: VIA A WIRELESS NETWORK

Refer to the System Commissioning section in this guide to connect to a wireless network.

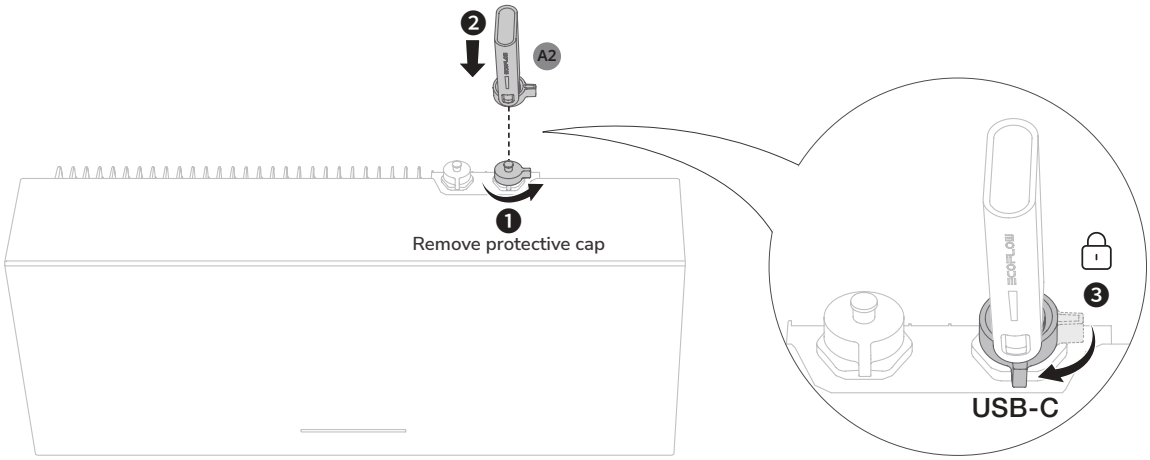
## Installing trim cover




## Installing EcoFlow IOT Dongle ESS (Must be configured)

**NOTICE**

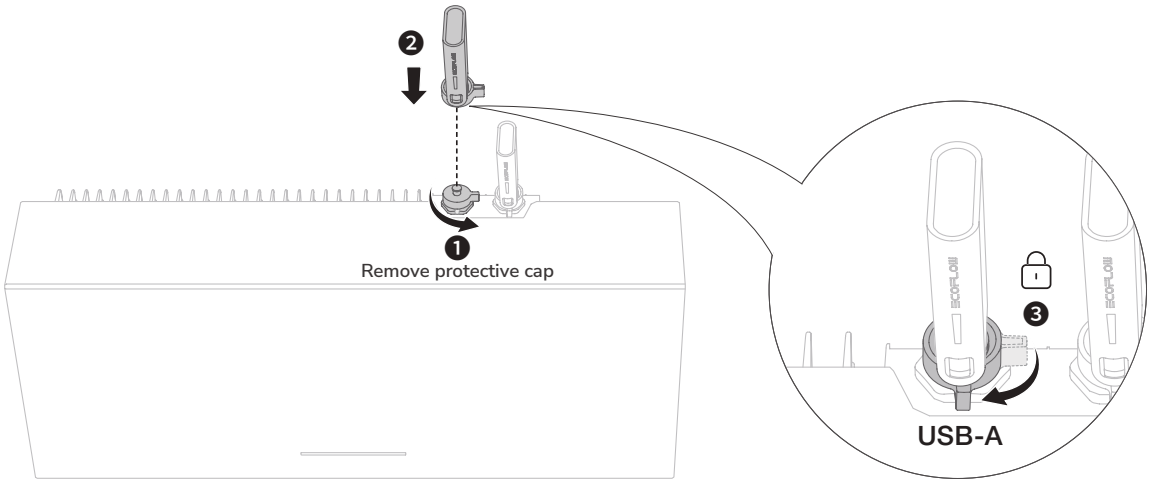
- For more details about EcoFlow IOT Dongle ESS, please please visit following website to access user manual: https://enterprise.ecoflow.com/eu/documentation




## (Optional) Installing EcoFlow 4G Dongle ESS(EU)

**NOTICE**

- For more details about EcoFlow 4G Dongle ESS(EU), please refer to the user manual.



# System Commissioning

## Checking before Power-On

| Check Item | Acceptance criteria |
|---|---|
| Equipments | Equipments are installed correctly and securely. |
| Cables routing | Cables are routed properly as required by the customer. |
| Cable tie | Cable ties are evenly distributed and no burr exists. |
| Grounding | The PE cable is connected correctly, securely, and reliably. |
| Switch | All the switches connecting to the system are OFF. |
| Cable connection | The AC/DC power cable, battery cable, and communication cable are connected correctly, securely, and reliably. |
| Unused terminal and port | Unused terminals and ports are locked by watertight covers. |
| Installation environment | The installation space is proper, and the installation environment is clean and tidy. |

## System Power-On

**PROCEDURE (ON-GRID AND PV MODULE CONFIGURED)**

1. Turn on the AC switch between the inverter and the power grid.
2. Set the PV SWITCH on the side of the inverter to ON position.
3. Observe the LED to check the inverter operating status.

**PROCEDURE (OFF-GRID AND NO PV MODULE CONFIGURED)**

1. Turn on the AC switch between the inverter and the power grid.
2. Set the PV SWITCH on the side of the inverter to ON position.
3. After commissioning, press and hold for 5 seconds the BATTERY ON/OFF button.
4. Observe the LED to check the inverter operating status.

## System Power-Off

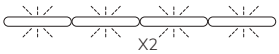
**⚠ WARNING**

Before installing, operating, and maintaining the equipment, always disconnect it from all power.

1. Send a shutdown command on the App.
2. Turn off the AC switch between the inverter and the power grid.
3. Set the PV SWITCH on the side of the inverter to OFF position.
4. (Optional) Secure the PV SWITCH with a lock to prevent accidental startup. The lock is prepared by the customer.
5. Press and hold the BATTERY ON/OFF button of the junction box for 10 seconds, until the indicator is off.
6. Sequentially disconnect GRID cables, BACKUP cables, PV input cables, communication cables and all modules connecting to the system.

## LED Indicators

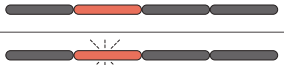
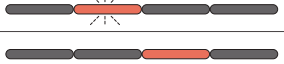
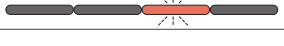
| LED Indicator | Symbol Conventions | |
|---|---|---|
| ON |  | Steady White |
| |  | Blinking White |
| |  | Carousel White |
| |  | Steady Orange |
| |  | Blinking Orange |
| OFF |  | OFF |

| Power On/Off Status | Description |
|---|---|
|  X2 | System startup |
|  | System shutdown |

| Charge Status | Description |
|---|---|
|  | 0-25% |
|  | 25-50% |
|  | 50-75% |
|  | 75-99% |
|  | 100% |

| Discharge/Standby Status | Description |
|---|---|
|  | <5% |
|  | 5-25% |
|  | 25-50% |
|  | 50-75% |
|  | 75-100% |

| Over-the-air Updates Status | Description |
|---|---|
|  | Over-the-air update is in progress |

| Faulty Status | Description |
|---|---|
|  | Abnormal electrical connection. Check if all equipment is installed correctly and securely. |
|  | Abnormal smart meter communication. |
|  | Abnormal IoT communication. |
|  | Battery is faulty. |
|  | Abnormal battery communication. |
|  | Converter is faulty. |
|  | Abnormal converter communication. |

**NOTICE**

- If the LED indicates a faulty status, visit the EcoFlow Pro app to retrieve the error code for troubleshooting.

## 1 DOWNLOAD AND INSTALL ECOFLOW PRO APP (FOR INSTALLER ONLY)

Scan the QR code or download at:
https: //download.ecoflow.com/ecoflowproapp

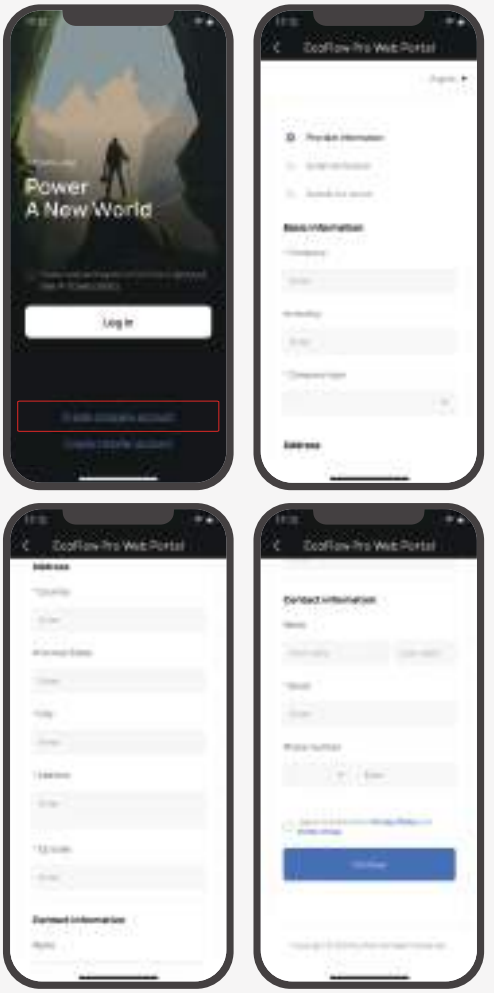
EcoFlow Pro

GET IT ON Google Play

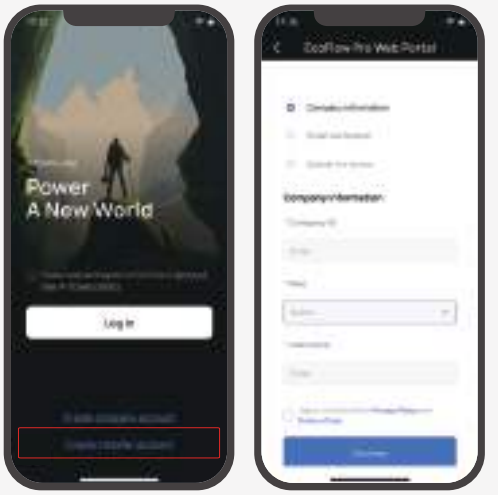
Download on the App Store

## 2 CREATE ACCOUNT

**a. Create company account**

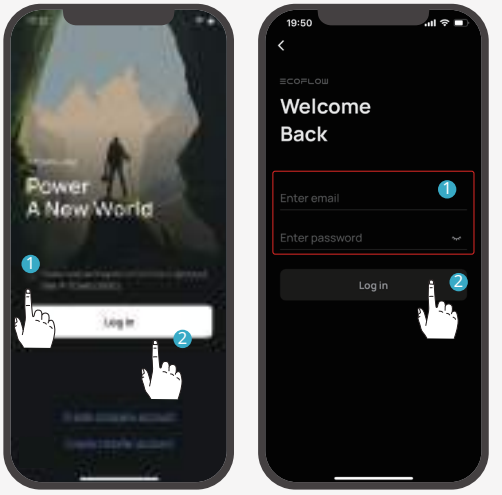



**b. Create installer account**




## 3 LOG IN

Enter the installer account and password.

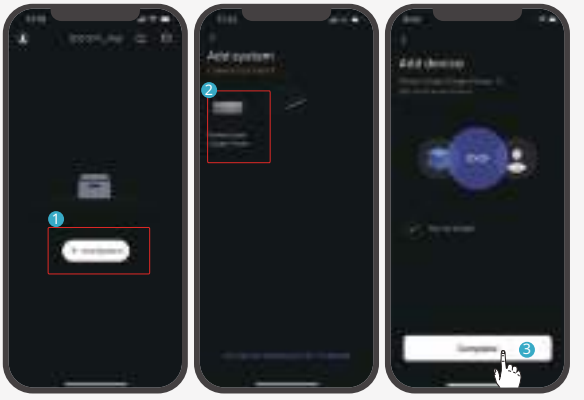



## 4 ADD DEVICE

You can connect to the system via Bluetooth or Wi-Fi.

**a. Connect to the system via Bluetooth.**

Click **Add System** to automatically search for bluetooth devices nearby, and click **EcoFlow PowerOcean Single Phase** to connect, then click **Complete** to proceed.



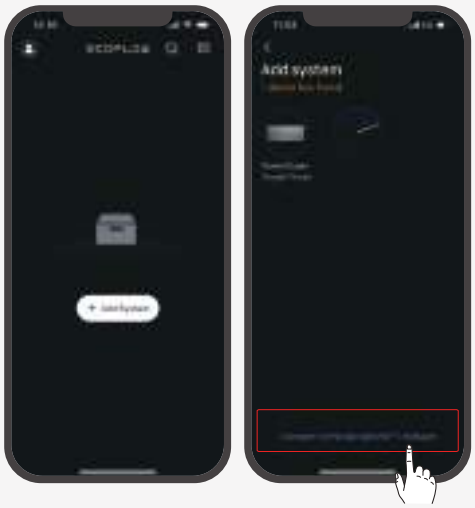
**b. Connect to the system via Wi-Fi**

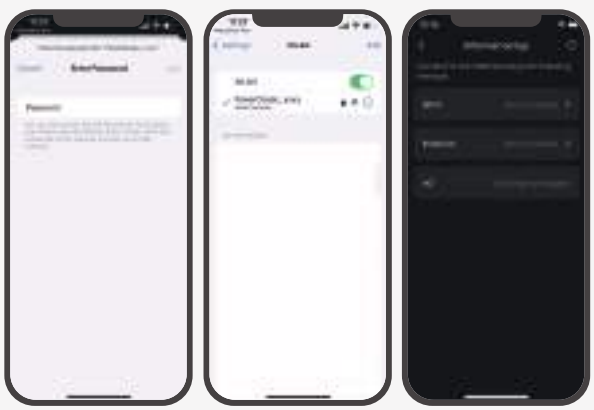
1. Click "Add System" and then click "Or connect to the system's Wi-Fi" to access to your phone's Wi-Fi settings.

2. Find "PowerOcean_xxxx" and click it to enter the password for the Wifi, then click "Join". The password is the last 8 digits of the serial number of the inverter.

You can find the serial number (S/N) in the product nameplate.

3. After successfully connected your phone to "PowerOcean_xxxx", tap the "EcoFlow Pro" on the top left of your phone's Wi-Fi setting page to shift back and proceed to commissioning.



## 5 COMMISSIONING

After bound device successfully, the device enters the four-step commissioning process.

**Step1: Internet Setup**

click **Internet Setup** to start the network configuration.

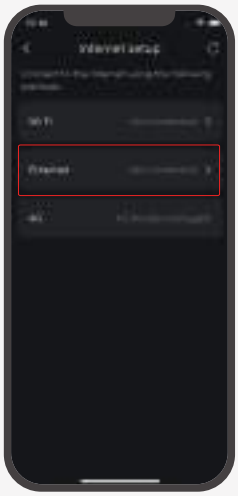
**Method 1: Wi-Fi**

Click **WiFi**，select the appropriate WiFi name and enter the password and click **continue**.


**Method 2: Ethernet**

Connect the system to a router using a network cable, wait a minute before proceeding. Then click "Ethernet to set DHCP/Static mode. (Both modes are available)

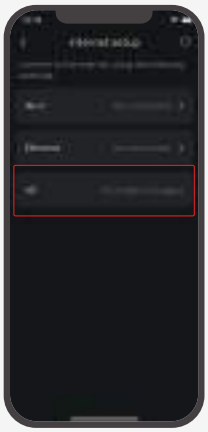
- By default, the IP setting is DHCP mode, which assigns dynamic IP address to the device (recommended).
- Static mode requires manual configuration of the IP address. Please make sure the IP address is not in conflict with other devices, you can visit the router to check the IP addresses of other devices.




**Method 3: 4G**

1. Install a nano SIM card to the EcoFlow 4G Dongle ESS(EU).
2. Install the dongle onto the USB port (4G) of the inverter.
3. Activate your SIM card through App.

For more details about EcoFlow 4G Dongle ESS(EU), please refer to its user manual.



**Step2: Home Setting**

Click **Home Setting** to enter the corresponding house address.

(Optional) Set the electricity rate.

**Step3: Device Setting**

a.Click **Device Setting** to verify that the devices in the device list match the connected devices.

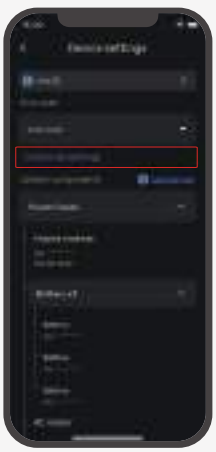
**(Optional) Update firmware before carrying out Device Setting.**

If there is a firmware update available for the EcoFlow PowerOcean system, the update page will pop up to notify you when proceeding this step. The "Skip" button is available for some update that is not urgent. It is highly recommended that you upgrade your PowerOcean firmware for seamless experience immediately.

b.Set grid code, system work mode and feed-in power limitation.

c.(Optional) You can also tap **Customize Settings** to set Connection parameters, Voltage Protection parameters, Frequency Protection parameters, Reactive Power parameters and other parameters. (Please follow local regulations, if you need to change any of these parameters, please contact your local power organization first.)

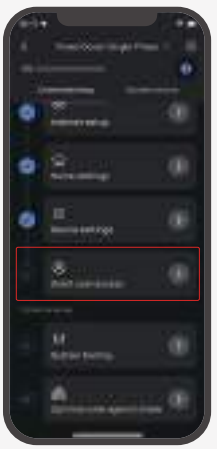
d.Click **Done** to finish the commissioning.



## 6 GRANT USER ACCESS

Click **Grant User Access** for a home owner access QR code to allow users to scan it.

- After manually adding device **EcoFlow PowerOcean** using the EcoFlow User App, users scan the home owner access QR code to bind it.



## 7

**(OPTIONAL) SYSTEM TESTING**

To test the go off-grid feature, you can toggle the button to switch the connection status of the system.

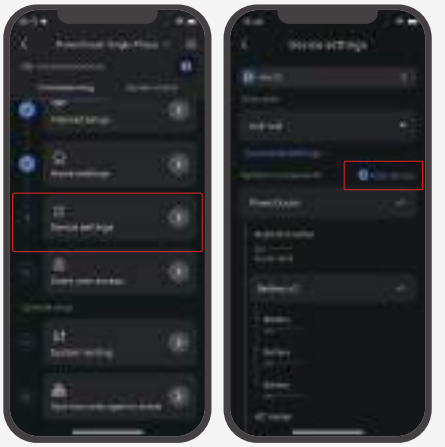
## 8

**(OPTIONAL) OPTIMIZE SOLAR AGAINST SHADE**

If this feature is enabled, the system will optimize solar generation in shaded conditions at your setup intervals to track the maximum power point. Solar generation may fluctuate.

**(OPTIONAL) ADD DEVICE TO POWEROCEAN SYSTEM**

After correctly wiring power cables and communication cables with PowerOcean system, tap "Device setting"->"Add Device" to add devices to EcoFlow Pro App, such as third-party PV inverter, PowerHeat, etc., and then make some relevant settings.

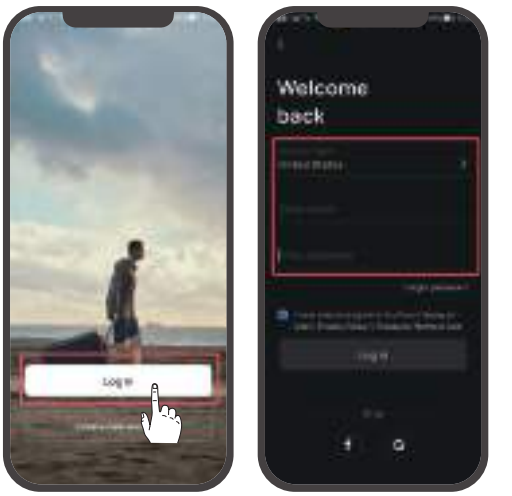


# How Users Add Devices

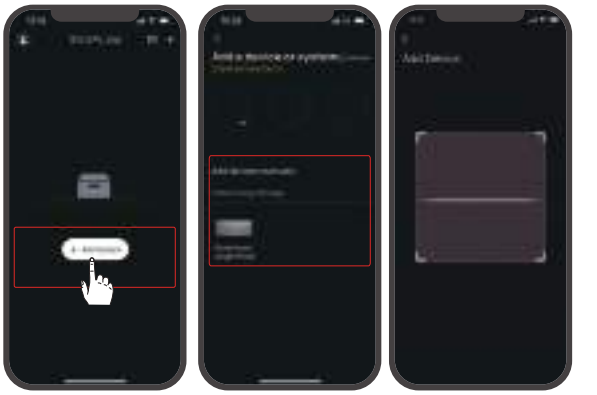
**1. DOWN AND INSTALL ECOFLOW USER APP (FOR USER ONLY)**

Scan the QR code or download at:
*https://download.ecoflow.com/app*


**2. CREATE NEW ACCOUNT AND LOG IN.**




**3. ADD DEVICE MANUALLY.**



## (Optional) Inverter Cascading

**1** **FOLLOW THE INSTRUCTIONS IN THE SECTION "SYSTEM COMMISSIONING" ABOVE TO CARRY OUT COMMISSIONING FOR EACH INVERTER TO BE CASCADED.**

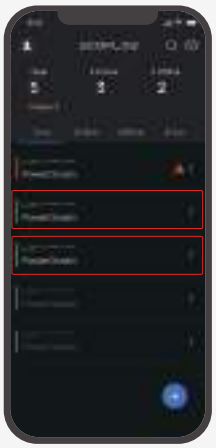
**2** **FIRMWARE UPDATE**

If the current firmware of inverters to be cascaded don't support cascading, you need to add them to the EcoFlow App /Pro App and update firmwares before proceeding.



**3** **SYSTEM STOP**

- Prefer to press the Emergency Stop button (if there is any) to stop the inverters which are running.
- If no Emergency Stop button is configured, you need to access to the EcoFlow App and select “Device setting”->“Stop running” to stop the systems.

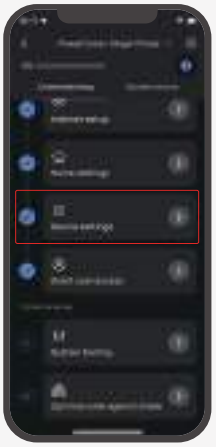
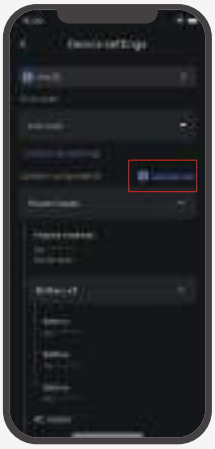


**4** **CONNECT INVERTER CASCADING CABLE CORRECTLY. SEE THE SECTION "(OPTIONAL) CONNECTING COMMUNICATION CABLES BETWEEN THE CASCADED EF HD-P1-(3K-6K)-S1".**

**5** **INVERTER CASCADING SETUP**

Tap the inverter with meter connected on the device list page, then select “Device setting”->“Add device” -> “Inverter cascading setup” to set the inverter with meter connected as the primary inverter, the others will be the secondary inverters by default. Follow the in-App instructions to complete the cascading setup.

**The inverter to which the meter is connected must be set as the primary inverter.**

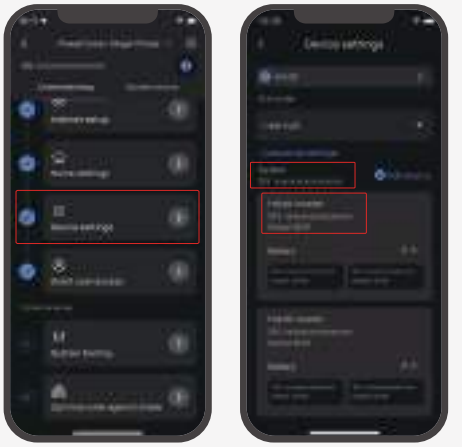



## 6 START SYSTEM

- Prefer to twist realease the Emergency Stop button (if there is any) to start the systems.
- If no Emergency Stop button is configured, you need to access to the EcoFlow App and select “Device setting”->“Start system” to start the systems.

## 7 SET CAPACITY OF AIR CIRCUIT BREAKER AND EXPORT LIMITATION FOR THE CASCADING SYSTEM

Access to the EcoFlow Pro App, then select “Device setting” to set the capacity of air circuit breaker (0-120A) based on user's home actual current of air circuit breaker, and set export limitation (0-50kW) for the cascading system.



- For more details about device settings, please scan the QR code or visit:

https://enterprise.ecoflow.com/eu/documentation


Raccolta carta