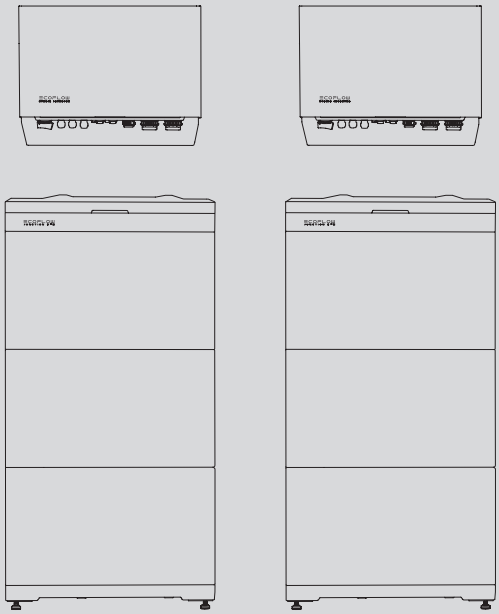
QUICK INSTALLATION GUIDE

V1.0

Issuing Date
2024-04-24

ECOFLOW POWEROCEAN

System Cascading



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.
- For details about the system installation, please see the installation guide that comes together with the inverter.

Installation Space Requirements

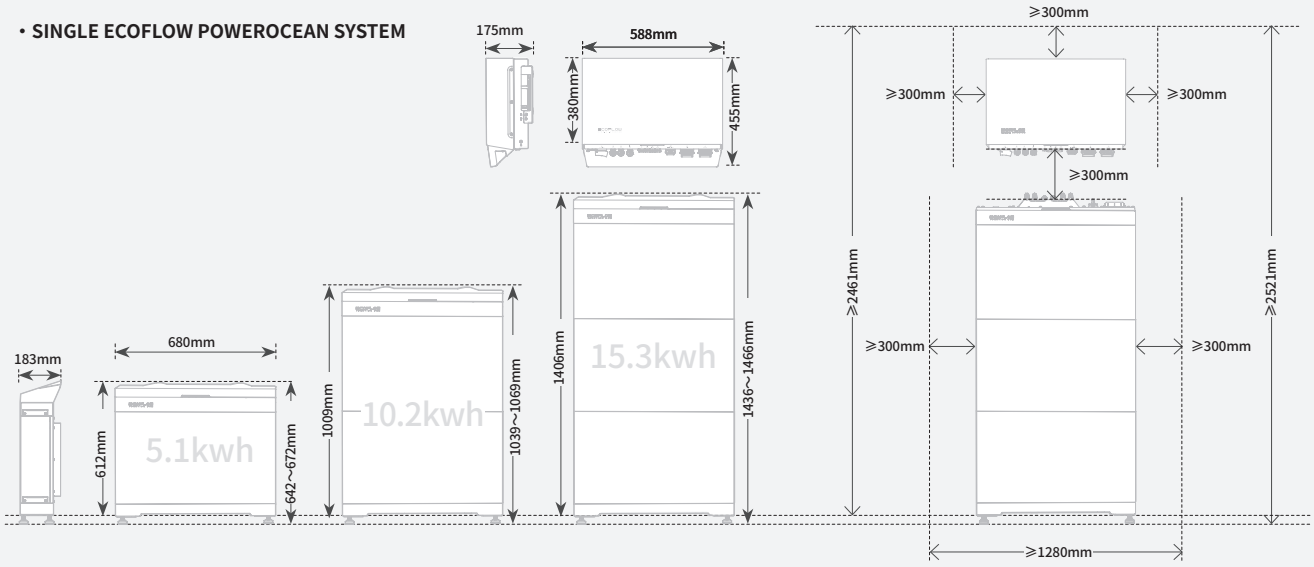
WARNING

- Reserve enough clearance around equipments to ensure sufficient space for installation and heat dissipation.

NOTICE

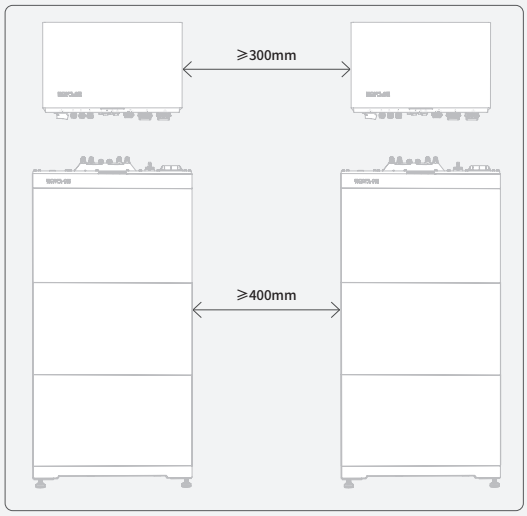
- Ensure there is enough space on both sides of the battery to facilitate the locking operation of the screws on the side of the battery.
- When installing two sets of batteries (number of battery packs ≥ 4), ensure that the minimum clearance between the two sets of batteries is 400mm, while greater 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.

• **SINGLE ECOFLOW POWEROCEAN SYSTEM**

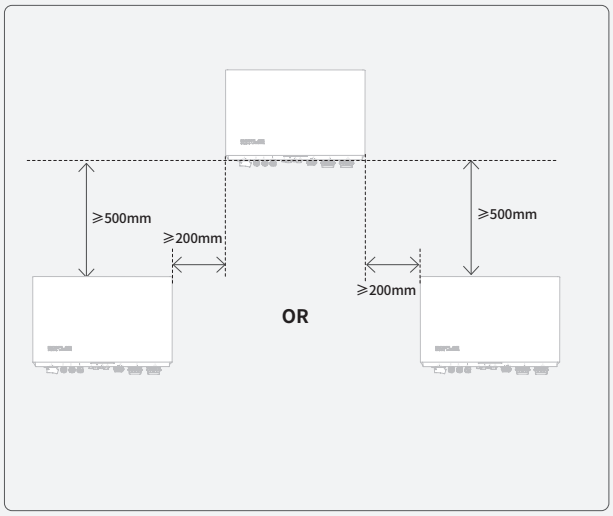


• **ECOFLOW POWEROCEAN SYSTEM CASCADING**

- HORIZONTAL INSTALLATION MODE (PREFERRED)



- SECOND INSTALLATION MODE (RECOMMENDED)



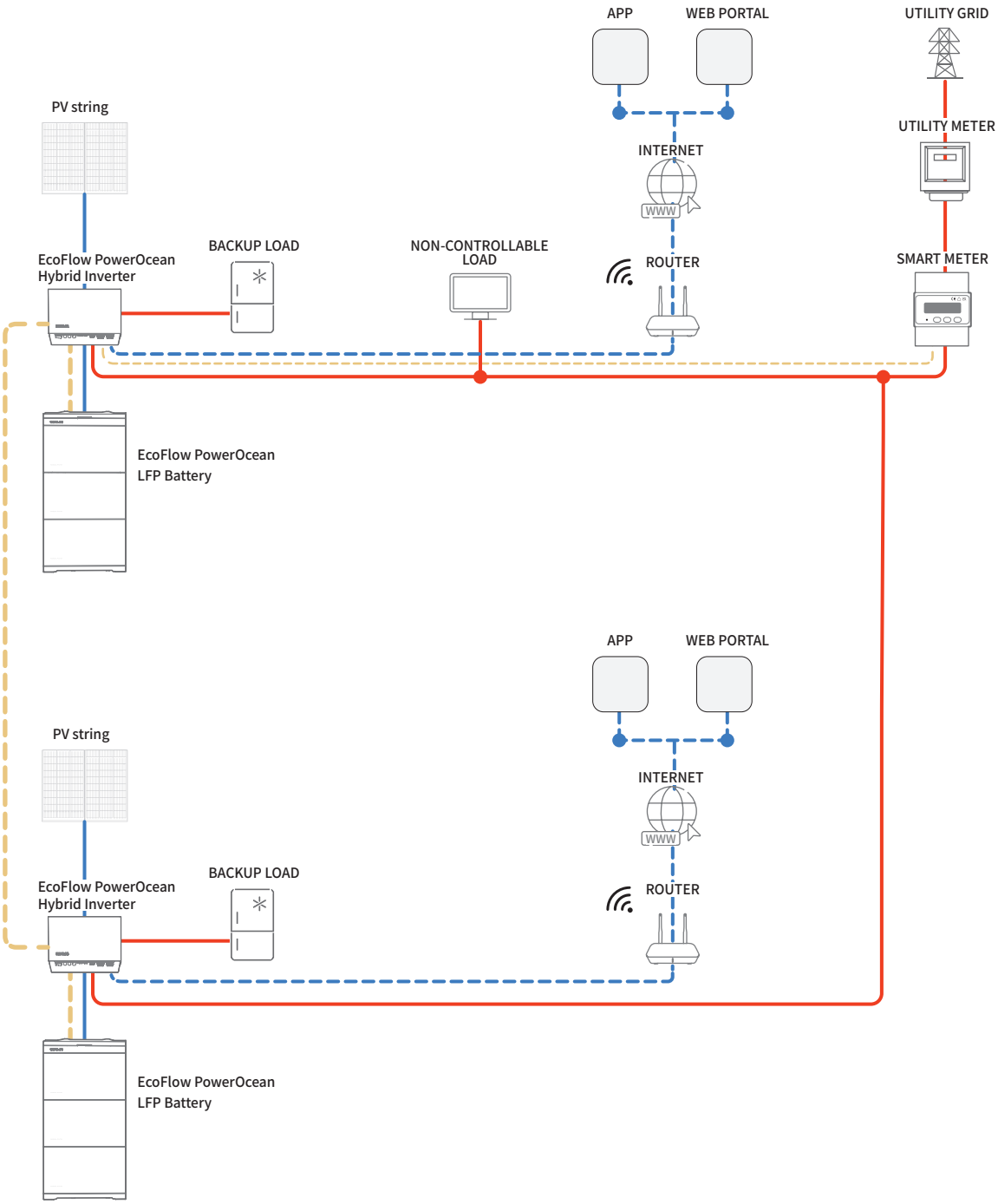
- STACKED INSTALLATION MODE (NOT ALLOWED)



EcoFlow PowerOcean System Cascading

NOTICE

- In the PowerOcean cascading scenario, the primary and secondary inverters are both EF HD-P3-(6K0-12K)-S1, and a maximum of two EF HD-P3-(6K0-12K)-S1 can be cascaded.
- In the PowerOcean cascading scenario, the two EF HD-P3-(6K0-12K)-S1 connected to the power grid must meet the local power grid requirements.



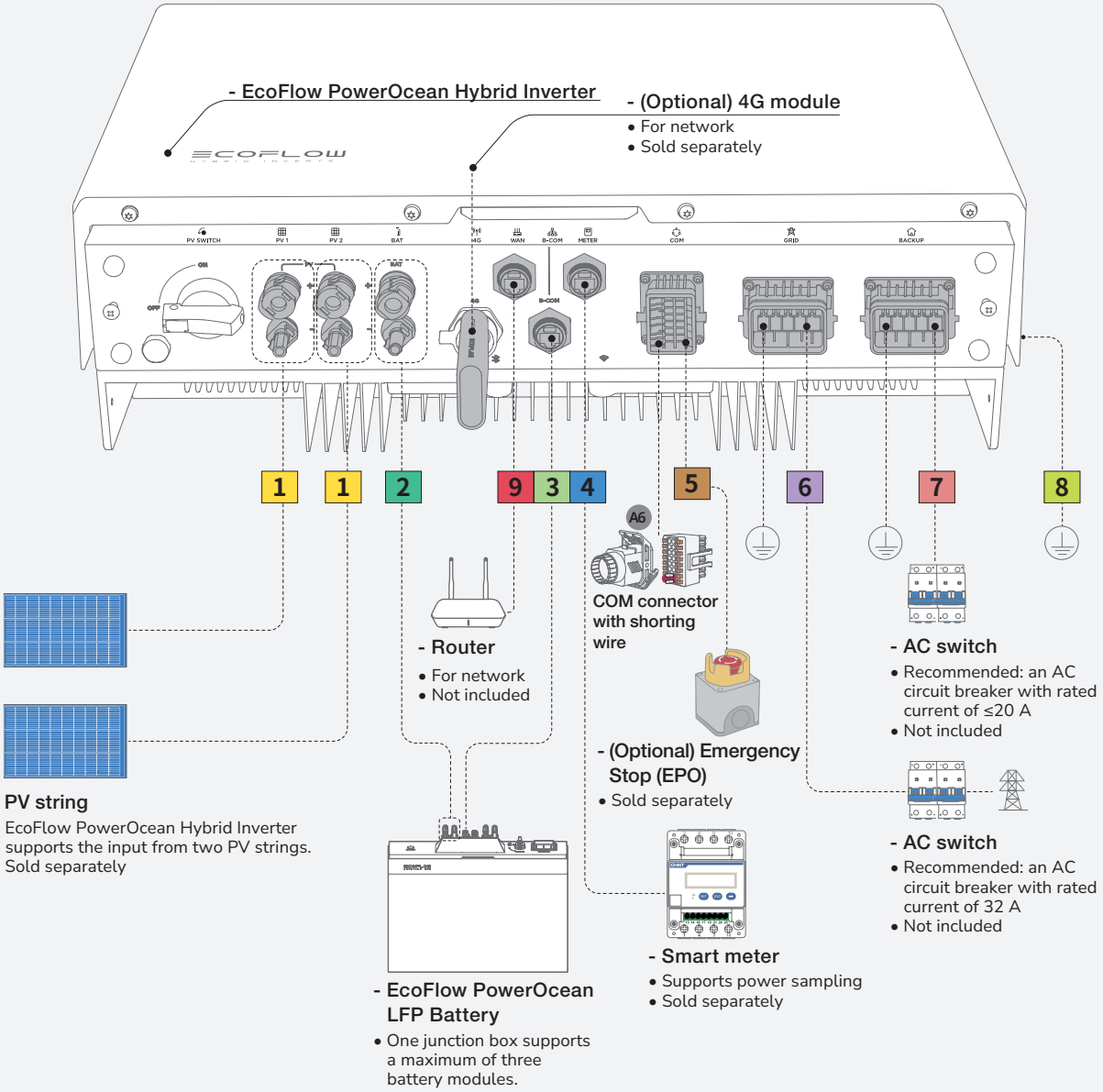
Electrical
Connection

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.



LEGEND

1 **PV Input cable**
Conductor cross-sectional area: 4 mm² to 6 mm² with a rated voltage greater than or equal to 1000V DC

2 **Battery power cable**
Conductor cross-sectional area: 4mm² with a rated voltage greater than or equal to 1000V DC

3 **Battery communication cable with shield**
CAT 5E 8*0.2mm²

4 **Smart meter communication cable**
CAT 5E 8*0.2mm²

5 **(Optional) COM terminal communication cable-Emergency Stop Button / Inveter cascading**
Shielded Twisted Pair 2*0.5mm²

6 **Grid cable**
4 mm² to 6 mm²

7 **Backup cable**
4 mm² to 6 mm²

8 **Ground cable**
6mm²

9 **Ethernet cable (optional)**
Cat 5e or higher shielded network cable

EcoFlow PowerOcean Cascading Wiring Diagram

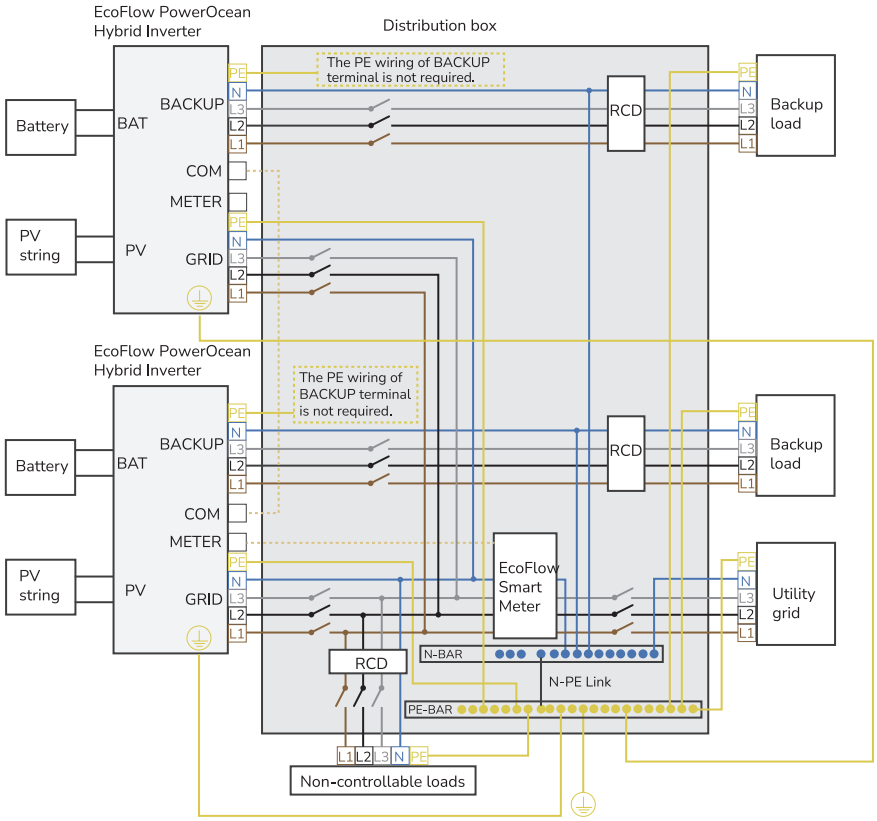
NOTICE

- **N** and **PE** wiring via GRID and BACKUP ports of the inverter vary based on the regulation requirements of different regions. Refer to the specific requirements of local regulations.

A. N AND PE CABLES ARE CONNECTED TOGETHER IN THE MAIN PANEL FOR WIRING.

NOTICE

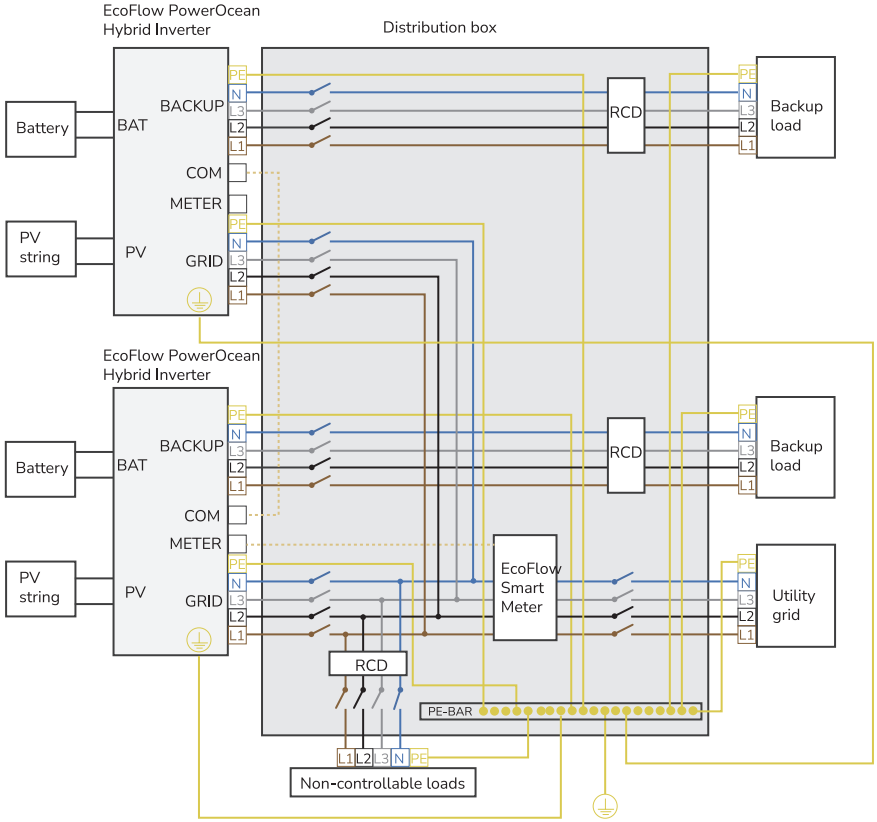
- For Australia and New Zealand, the N cable of GRID side and BACK-UP side must be connected together according to the wiring rules AS/NZS_3000. Otherwise BACK-UP function may be abnormal and risky.
- The following diagram is applicable to areas in Australia, New Zealand, etc.



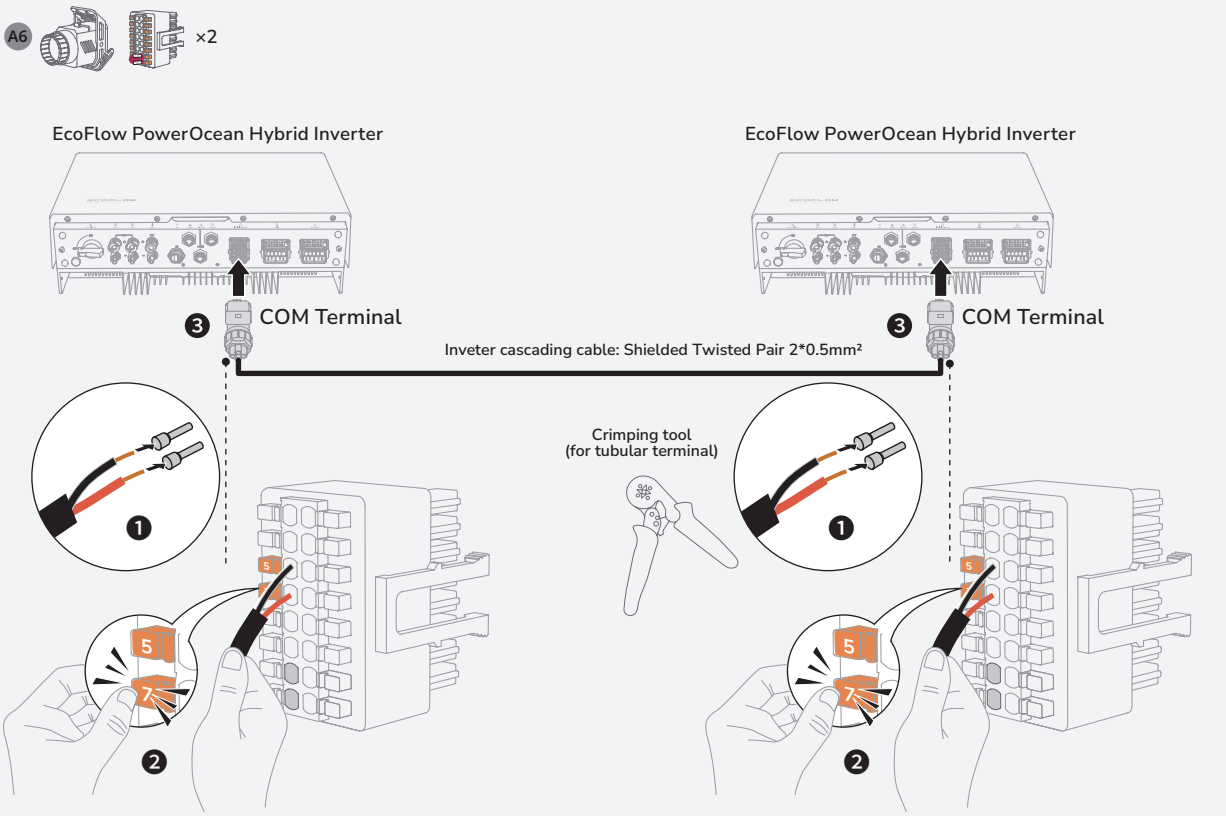
B. N AND PE CABLES ARE SEPARATELY WIRED IN THE MAIN PANEL.

NOTICE

- The following diagram is applicable to other countries whose grid systems without special requirement on wiring connection.



Connecting Communication Cables between the two cascaded EF HD-P3-(6K0-12K)-S1



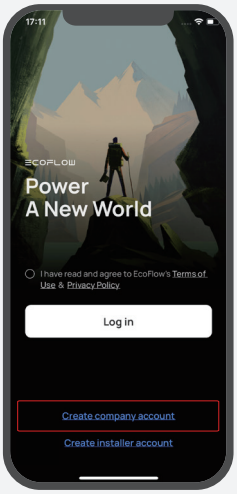
1 DOWNLOAD AND INSTALL ECOFLOW PRO APP (FOR INSTALLER ONLY)

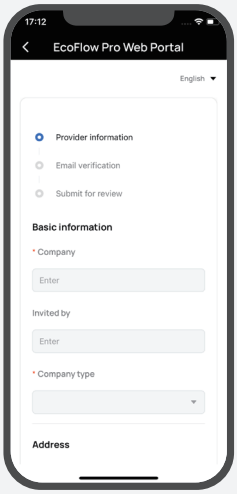
Scan the QR code or download at:
https: //download.ecoflow.com/ecoflowproapp

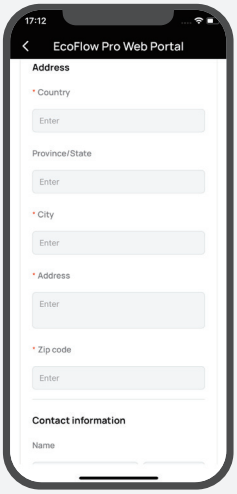
EcoFlow Pro
GET IT ON Google Play
Download on the App Store

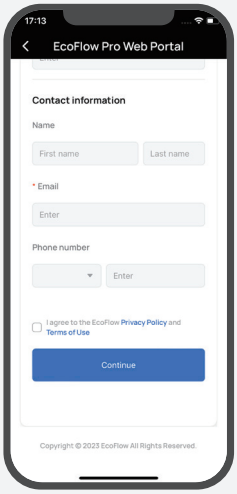
2 CREATE ACCOUNT

a. Create company account

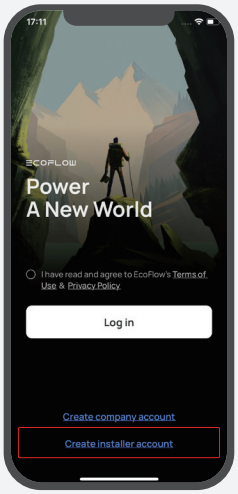


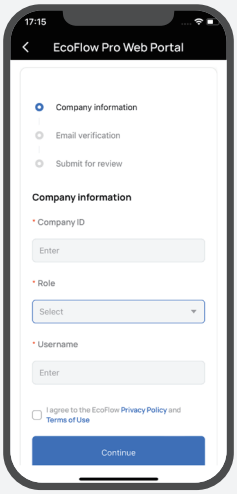






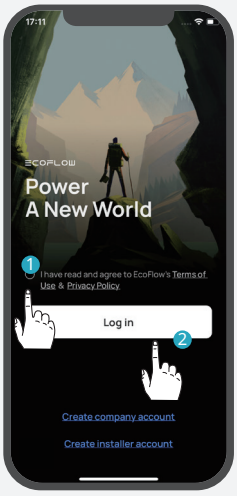
b. Create installer account

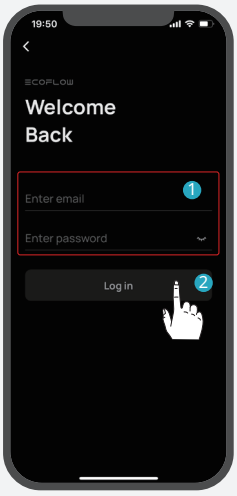




3 LOG IN

Enter the installer account and password.



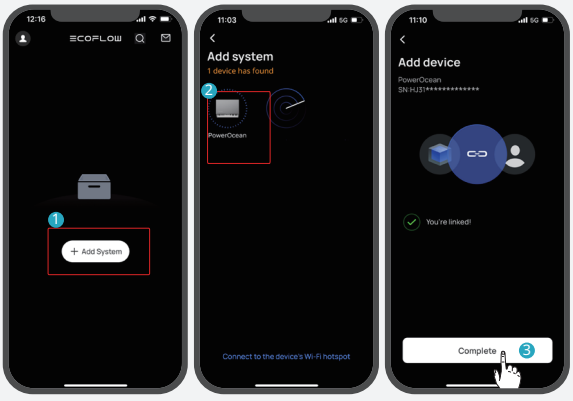


4 ADD DEVICE

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** to connect, then click **Complete** to proceed.



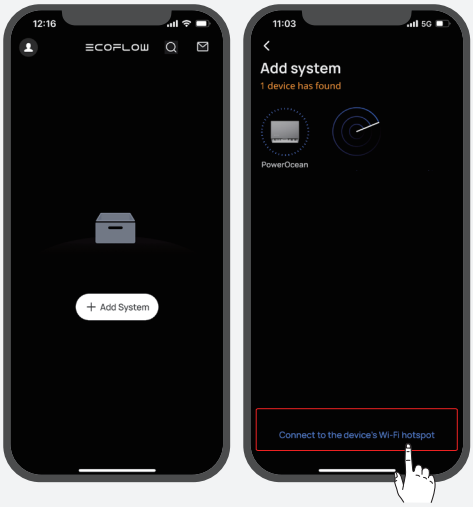
b. Connect to the system via Wi-Fi

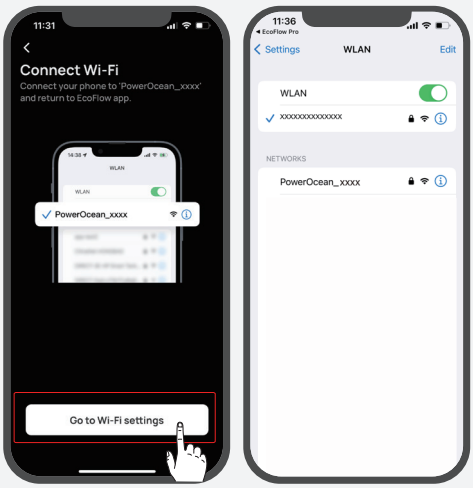
1. Click "Add System" or "+" on the top right corner and then click "Or connect to the system's Wi-Fi" to access to your phone's Wi-Fi settings.

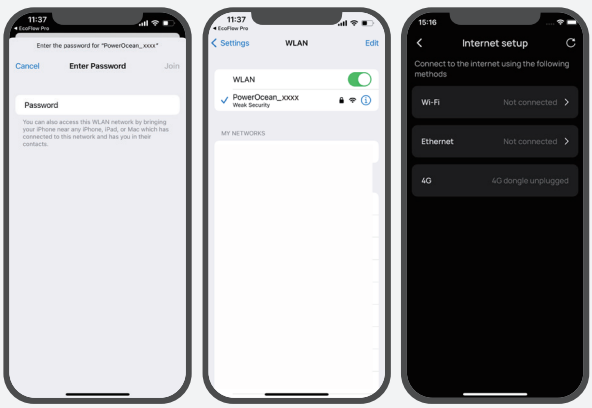
2. Find "PowerOcean_xxxx" and click it to enter the password for the Wifi, then click "Join". The password is the last 8 digits of the serial number of the inverter.

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.





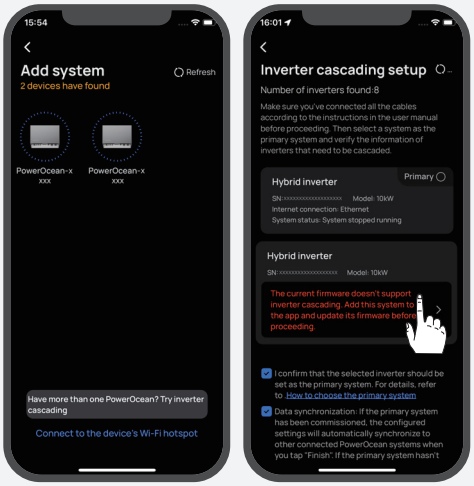


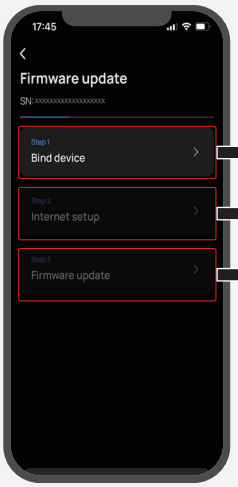
(Optional) Inverter cascading

1. Click "**Have more than one PowerOcean? Try inverter cascading**" to setup one of them as the primary inverter, the other one will be the secondary inverter by default. Prefer the inverter as the primary inverter with strong network signal.

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

2. Verify the information of the inverters that need to be cascaded, then click "**Next**" to proceed to commissioning.

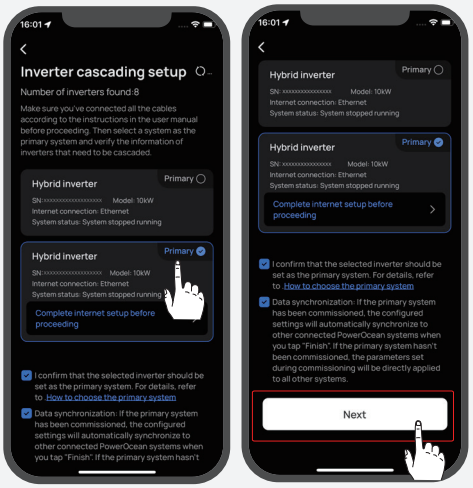




1. See "**Add device**" section of System Commissioning.

2. See "**Internet setup**" section of System Commissioning.

3. See "**Device setting**" section of System Commissioning.



5 COMMISSIONING

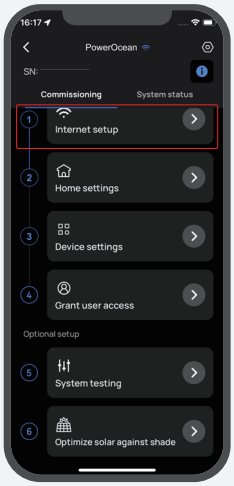
After bound device successfully, the device enters the four-step commissioning process.

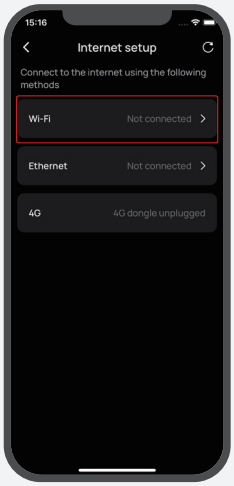
Step1: Internet Setup

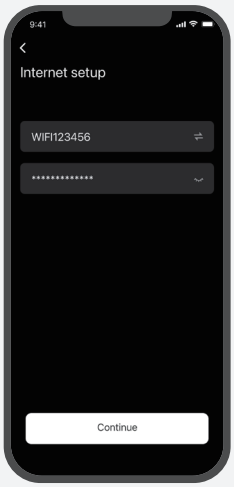
click **Internet Setup** to start the network configuration.

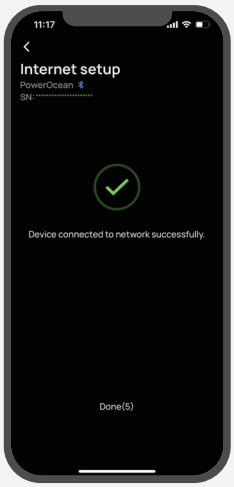
Method 1: Wi-Fi

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





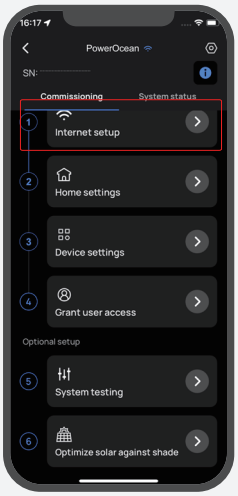


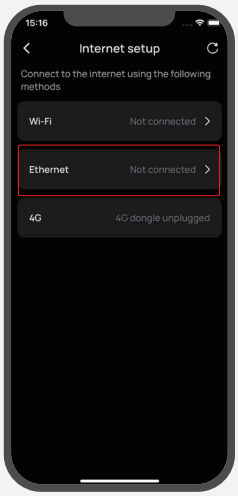


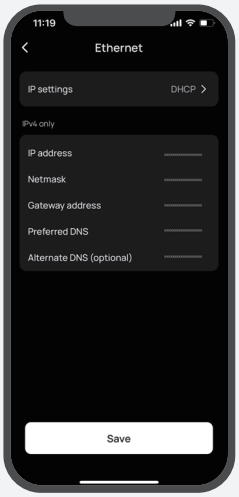
Method 2: Ethernet

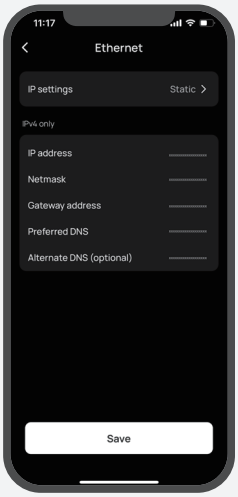
Connect the system to a router using a network cable, wait a minute before proceeding. Then click "Ethernet to set DHCP/Static mode. (Both modes are available)

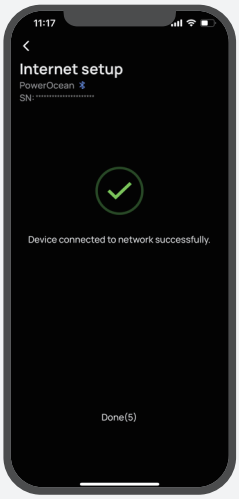
- By default, the IP setting is DHCP mode, which assigns dynamic IP address to the device (recommended).
- Static mode requires manual configuration of the IP address. Please make sure the IP address is not in conflict with other devices, you can visit the router to check the IP addresses of other devices.







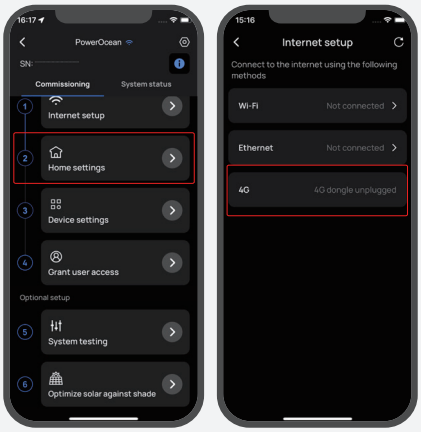




Method 3: 4G

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.

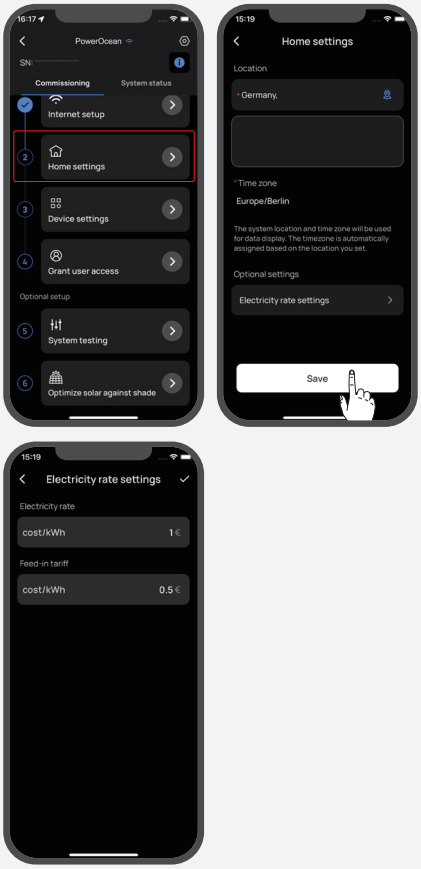
For more details about EcoFlow 4G Dongle ESS(EU), please refer to its user manual.



Step2: Home Setting

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

(Optional) Set the electricity rate.

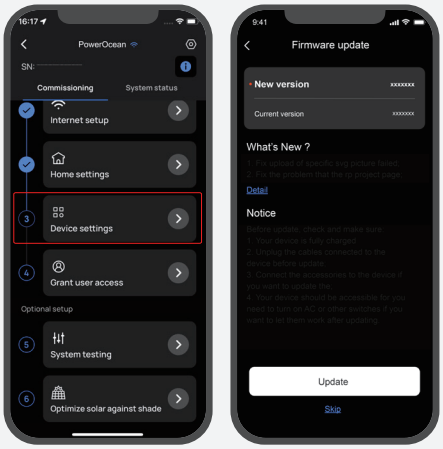


Step3: Device Setting

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

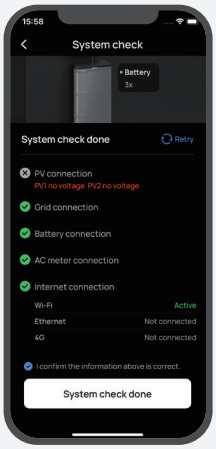
(Optional) Update firmware before carrying out Device Setting.

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.



System check before carrying out Device Setting.

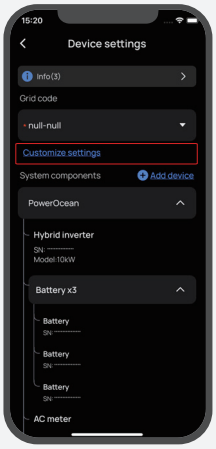
During the initial commissioning, there is a system check available for the EcoFlow PowerOcean system, allowing you to confirm all the system connections are correct.

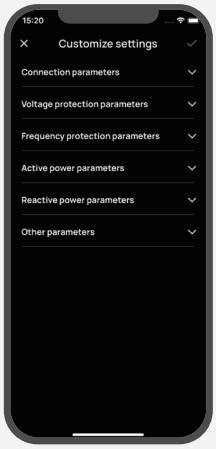


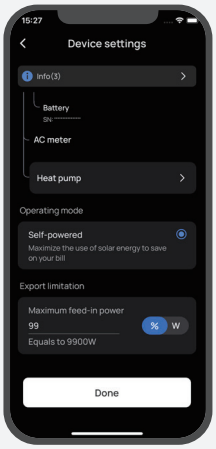
b.Set grid code, system work mode and feed-in power limitation.

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.



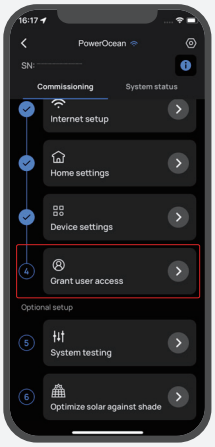




6 GRANT USER ACCESS

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.

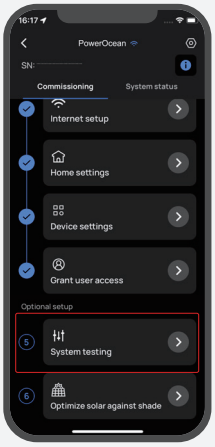


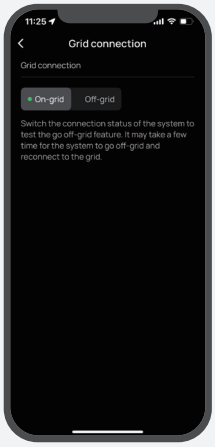




7 (OPTIONAL) SYSTEM TESTING

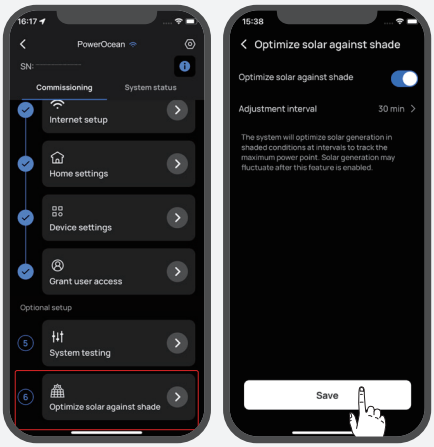
To test the go off-grid feature, you can toggle the button to switch the connection status of the system.





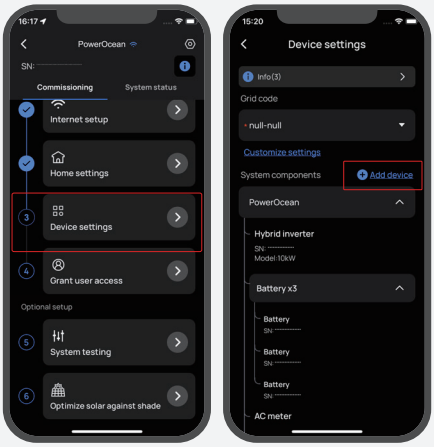
8 **(OPTIONAL) OPTIMIZE SOLAR AGAINST SHADE**

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 THE SYSTEM

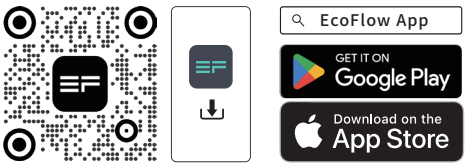
(Optional) Tap "Add Device" to integrate devices into this system, such as SG READY certified Heat Pump or charging pile etc., and setup relevant parameters.



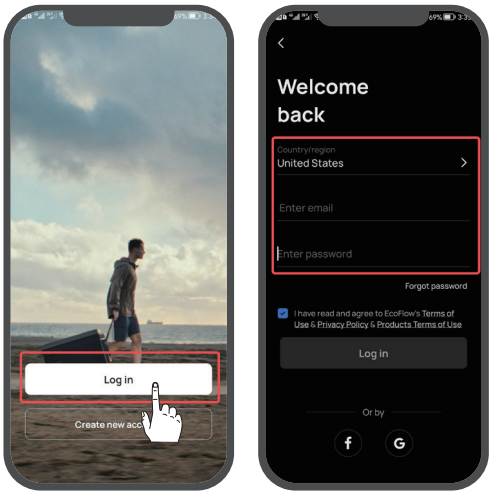
How Users Add Devices

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.

