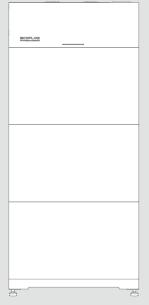
ECOFLOM

Installationsanleitung Installation Guide

V1.1

EcoFlow PowerOcean DC Fit





Für das neueste Dokument, bitte scannen Sie den QR-Code oder besuchen Sie:

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

Pour obtenir le dernier document, scannez le code QR ou visitez: Per ottenere la versione più aggiornata del documento, si prega di

scansionare il codice QR o visitare il sito:

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

WICHTIG/IMPORTANT

- Lesen und beachten Sie vor der Montage, dem Betrieb und der Wartung des Geräts Montageanleitung und das Sicherheitshinweise.
- Die Bilder in diesem Leitfaden dienen nur zur Veranschaulichung.
- Before installing, operating, and maintaining the equipment, read and follow up Installation Guide and Safety Instructions.
- Images in this guide are for demonstration only.

CONTENTS English

- 1 Safety Precautions
- 2 Preparing Tools and Instruments
- 3 Package Inspection
- 4 Installation Environment
- 4 Installation Space

5 System Installation

- 5 Installing Battery Base
- 6 Installing Battery Pack
- 7 Installing PV Storage Converter
- 7 Installing Protective Earthing Conductor

8 Electrical Connection

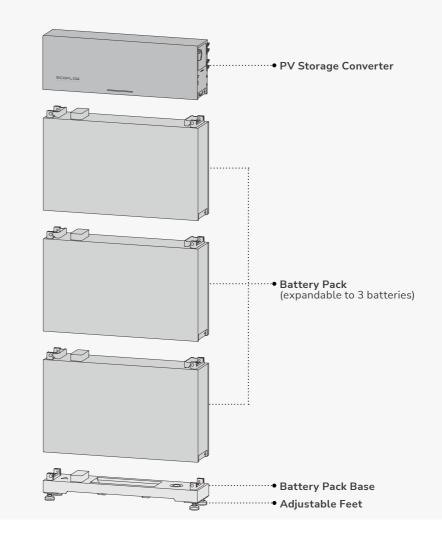
- 9 System Preview
- 9 Connecting to PV System
- 12 Connecting Smart Meter
- 14 Connecting to the Internet
- 15 Installation Review
- 15 System Power-On
- 15 System Power-Off
- 16 LED Indicators
- 17 System Commissioning

Safety Precautions

Symbol	Description	
	Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.	
	Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.	
	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. NOTICE is used to address practices not related to personal injury.	
ANGER	 Do not work with power on during installation or maintenance. Personnel who plan to install, maintain, or perform electrical operations on the equipment must receive thorough training, and be familiar with all necessary safety precautions and instructions. Personnel who plan to perform special operations should have the necessary local or national qualifications for tasks such as high-voltage operations, working at heights, and so on. Wear suitable personal protective equipment (PPE) for all professional or skilled work on the equipment. 	
	• When the photovoltaic (PV) array is exposed to light, it supplies direct current voltage to the power conversion equipment (PCE).	

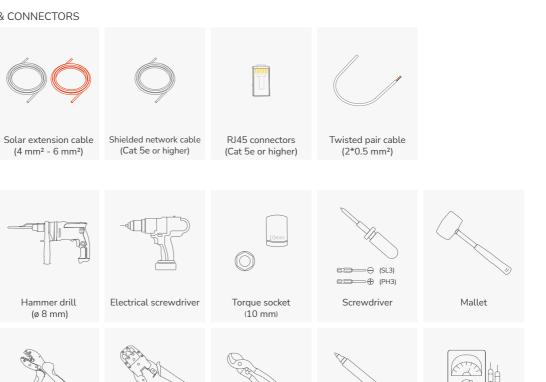
• Do not touch the exposed electrical cable with bare hands.

EcoFlow PowerOcean DC Fit:



Preparing **Tools and Instruments**

·ESSENTIAL CABLES & CONNECTORS



Wire stripper

Grounding cable

(4 mm² copper conductor)

·ESSENTIAL TOOLS

Measuring tape



Safety goggles



Wrench

(14 mm)

·PERSONAL PROTECTIVE EQUIPMENT AND OTHER OPTIONAL TOOLS



RJ45 crimping tool



Cable cutter



Marker

Network cable tester

Heat-shrink tubing

Heat gun



Step ladder

Safety gloves

Dust mask

Vacuum cleaner

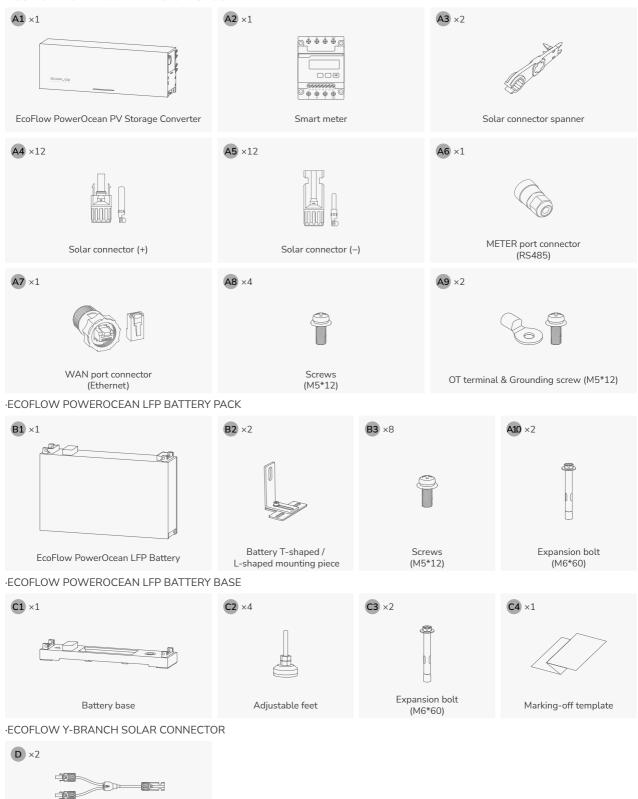


Multimeter (DC voltage measurement range ≥ 1000V DC)

Package Inspection

- 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 PV STORAGE CONVERTER



He

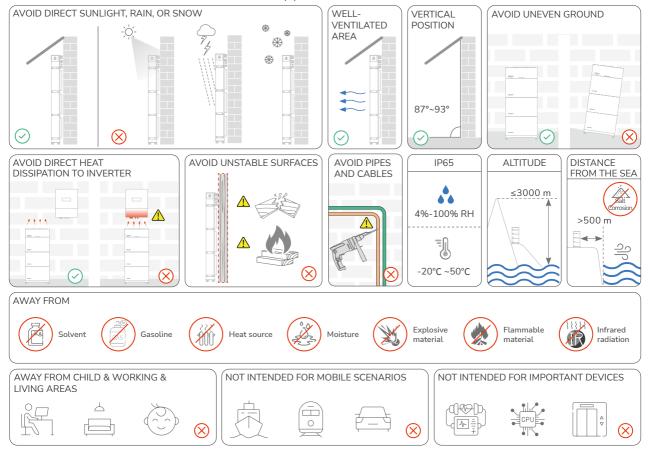
¥.

Installation Environment



NOTICE

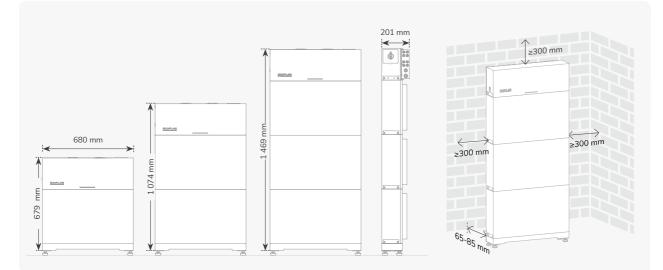
- The installation and use environment must meet relevant international, national, and local standards for lithium batteries, and be in accordance with the local laws and regulations.
- When installing the equipment in a garage, keep it away from the drive way.
 The mounting structure where the equipment 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

NOTICE

- Reserve enough clearance around equipment to ensure sufficient space for installation and heat dissipation.
- Reserve enough space on both sides of the equipment to facilitate the locking operation of the screws.



System Installation

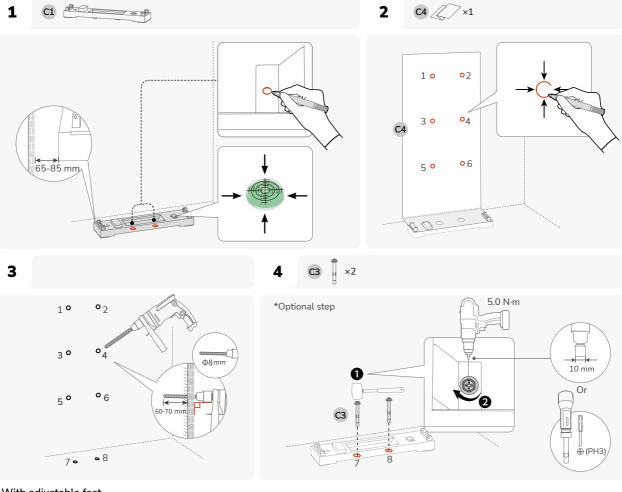


- When drilling screw holes, avoid the water pipes and power cables buried in the wall and under the floor.
- When moving heavy equipment, assign enough personnel (two or more).
 - When moving the battery pack, hold the handles on top of it.

• Install the provided adjustable feet to level the battery base if needed.

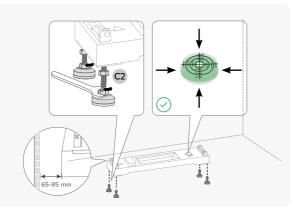
Installing Battery Base

·Without adjustable feet



2

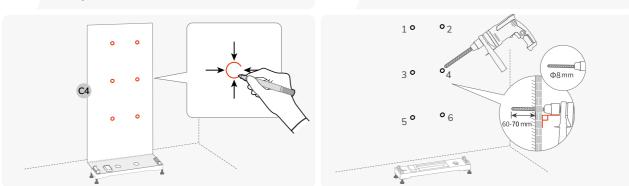
·With adjustable feet



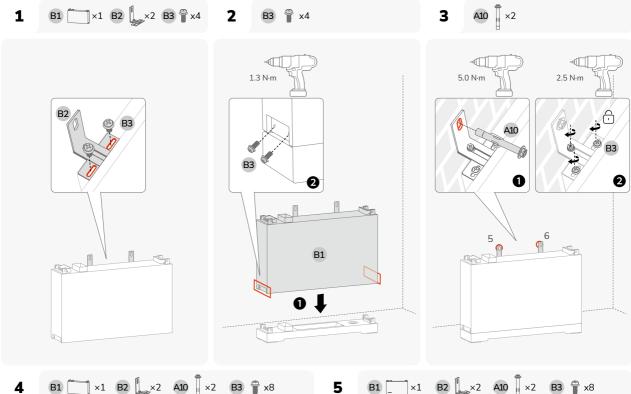
×4



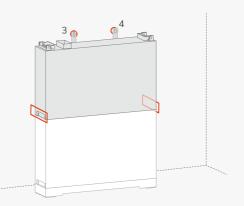
4



Installing Battery Pack

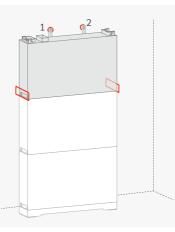


B1 → ×1 B2 ×2 A10 ×2 B3 → ×8 4

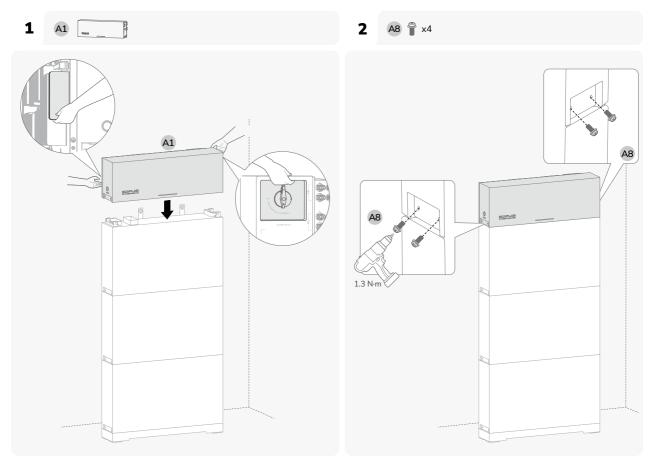


B1 _____ ×1 B2 ↓ ×2 A10 ×2 B3 ♀ ×8



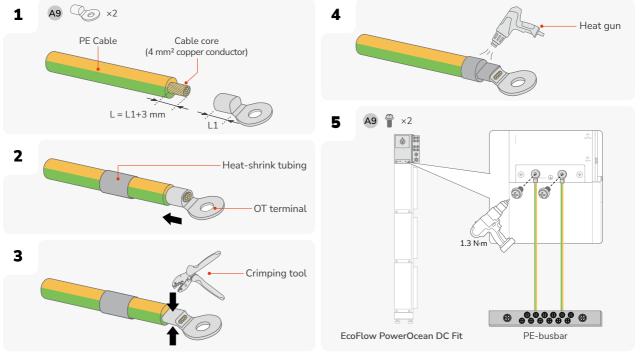


Installing PV Storage Converter



Installing Protective Earthing Conductor

• Grounding terminals should be fully connected.



Electrical Connection

DANGER

NOTICE

- Keep the protective cap of the unused terminal on the converter. Otherwise, the IP rating of the converter will be affected.
- Only qualified persons can perform the following operations.
- Use cables that meet local regulations and the recommended specifications.

EcoFlow PowerOcean PV Storage Converter

- BATTERY SWITCH

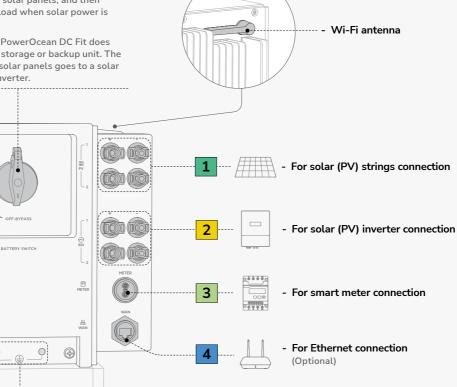
Q

ON: EcoFlow PowerOcean DC Fit stores the excess electricity generated by solar panels, and then supplies it to the home load when solar power is insufficient.

OFF-BYPASS: EcoFlow PowerOcean DC Fit does not function as a power storage or backup unit. The electricity produced by solar panels goes to a solar inverter through the converter.

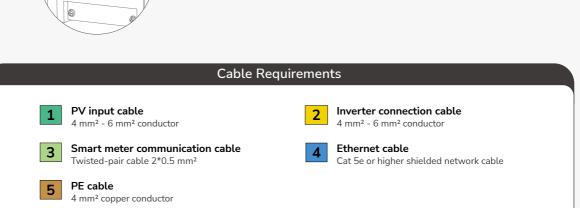
 \bigcirc

Ð



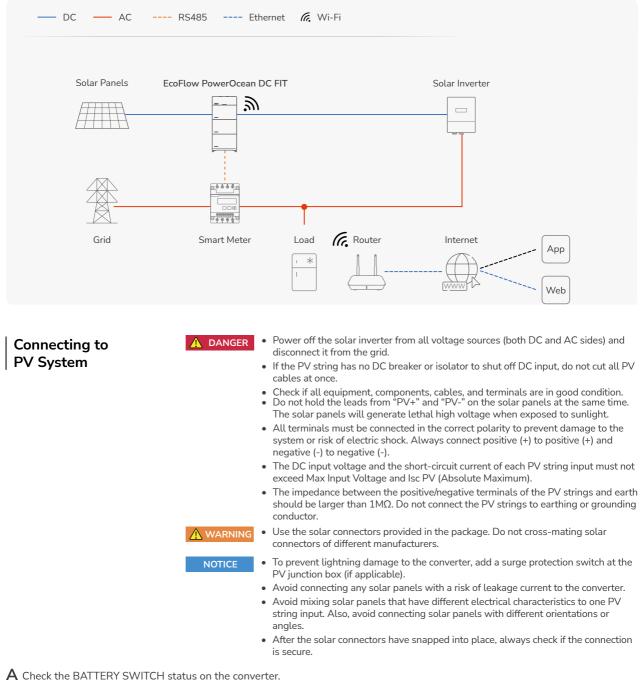
 For protective earthing (PE) conductor connection

- BATTERY ON/OFF Long press to turn on or off the EcoFlow PowerOcean DC Fit.

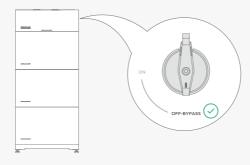


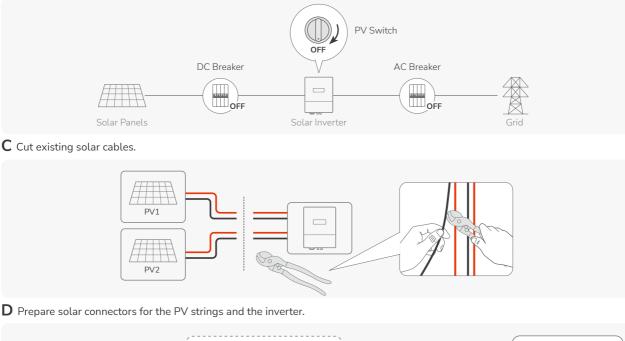
5

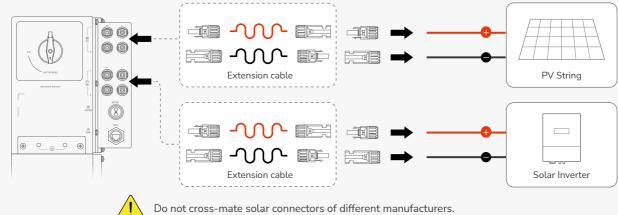
System Preview

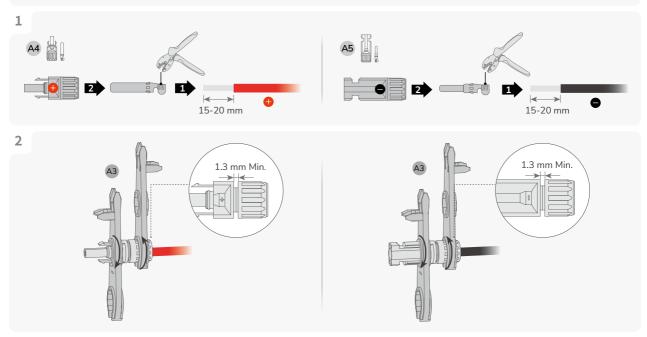






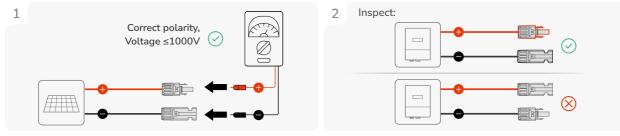






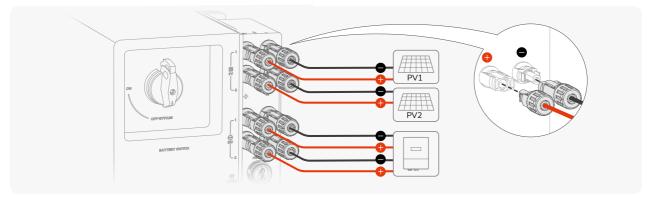
ΕN

E Check the polarities of the connection cables.



If the multimeter displays a negative value, the polarities of the leads are reversed. Correct them and try again.
If the multimeter displays a voltage exceeding 1000V, remove some solar panels.

${f F}$ Connect to the converter.

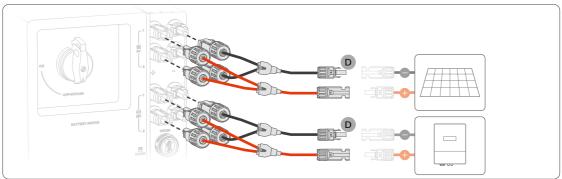


NOTICE

• To remove or remake the solar connectors, use the provided solar connector spanner to remove them.

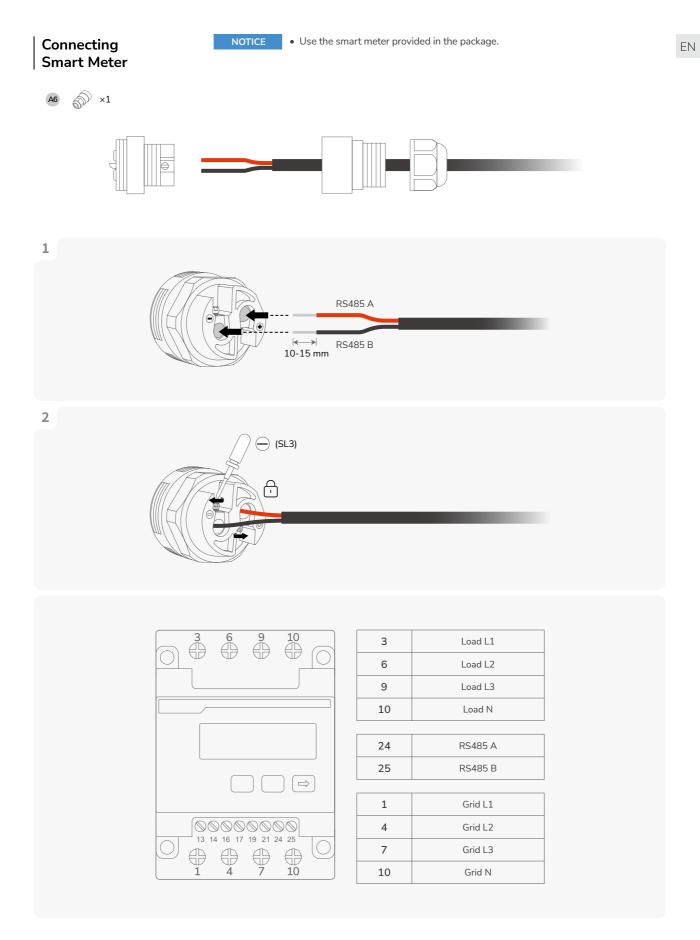


• For an inverter that only supports single PV string input, adjust the connection using the EcoFlow Y-branch Solar Connector*.



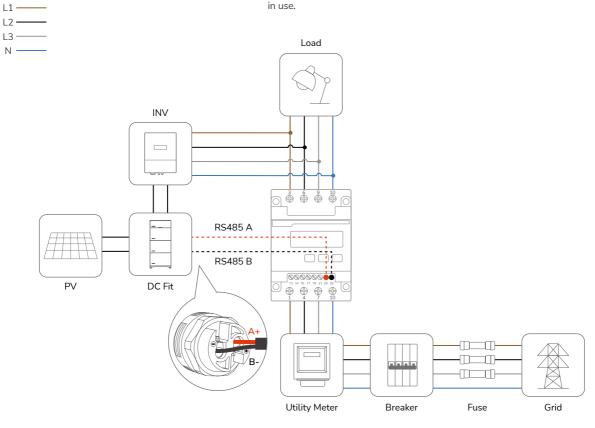
• For an inverter that supports multiple PV strings (≥ 2 strings) in one input, avoid paralleling the EcoFlow PowerOcean DC Fit with a PV string to prevent potential damage to solar panels.



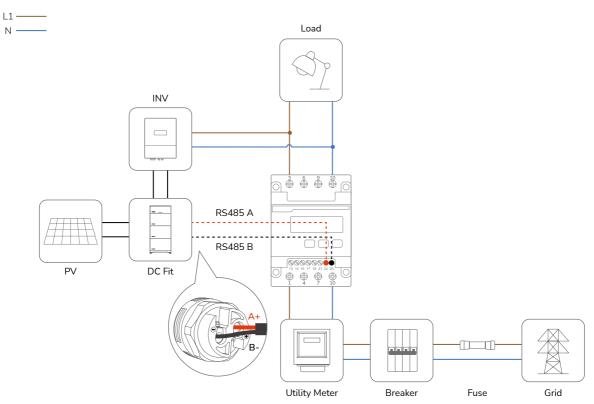


NOTICE

• For a three-phase house wiring, always adhere to the three-phase wiring diagram when installing the smart meter, irrespective of whether a single-phase inverter is in use.

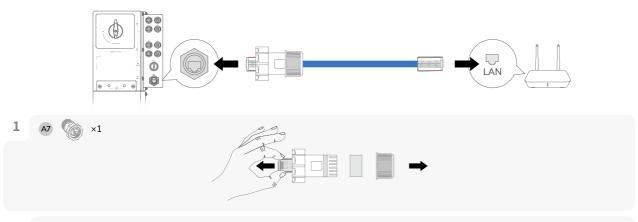


• Wiring diagram (single-phase)

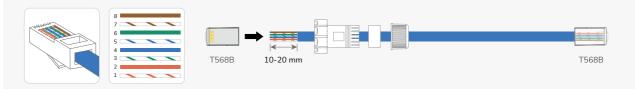


Connecting to the Internet

· Method 1: Via a Wired Network



2 Both ends of the network cable use the T568B wiring standard (straight-through cable).

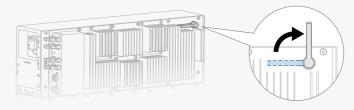


3 Test network cable connection. If the LEDs of the two RJ45 ports light up in sequence, it indicates that the network cable is correctly wired and should be fully operational.



· Method 2: Via a Wireless Network

Adjust the Wi-Fi antenna, then refer to System Commissioning section in this guide to connect the device to a wireless network.

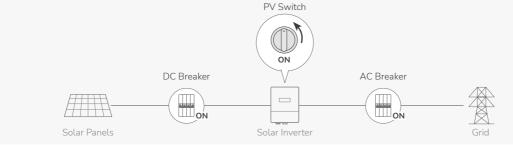


Installation Review

Check Item	Acceptance criteria
Equipment	All equipment is installed correctly and securely.
Cable routing	Cables are routed properly as required by the home owner.
Cable connection	All electrical cables are connected correctly and securely.
Grounding	The grounding terminals are connected securely.
Switch	All switches connected to the system are in off status.
Unused terminal and port	Unused terminals and ports are covered with watertight caps.
Environment	The installation space is proper, and the installation environment is clean and tidy.

System Power-On

1 Turn on the existing solar power system.



2 Turn the BATTERY SWITCH on the converter to the ON position and verify the third-party solar inverter is functioning properly.



3 Press and hold the **BATTERY ON/OFF** button on the converter for about 5 seconds. Wait until the LEDs light up and then flash twice, indicating a successful system power-on.



System Power-Off

- 1. Shut down the EcoFlow Powerocean DC Fit via the EcoFlow app.
- 2. Turn the **BATTERY SWITCH** on the converter to the **OFF-BYPASS** position.
- 3. Press and hold the **BATTERY ON/OFF** button on the converter for about 10 seconds.
- 4. Wait until the LEDs are completely off, indicating a successful system power-off.
- 15

LED Indicators



System Reminder

LED Status	Description
	The converter is energized by a DC voltage source (PV or battery pack), but the system is not functioning or is not completely powered-off. • To turn on the system: Press and hold the BATTERY ON/OFF button for about 5 seconds. Wait until the LEDs light up and then flash twice. • To power off the system: Turn the BATTERY SWITCH to OFF-BYPASS position.

· Discharge Status

LED Status	Battery Level
	<5%
	5%-25%
	25%-50%
	50%-75%
	75%-100%

Charge Status

LED Status	Description
	0%-25%
	25%-50%
	50%-75%
	75%-99%
	100%

Faulty Status

LED Status	Description
	Abnormal system installation. Check if all equipment is installed correctly and securely.
	Abnormal smart meter communication.
	Battery is faulty.
	Converter is faulty.
	Abnormal IoT communication.
	Abnormal battery communication.
	Abnormal converter communication.

-ý- If the LED displays a faulty status, visit the **EcoFlow / EcoFlow Pro** app to retrieve the error code.

System Commissioning

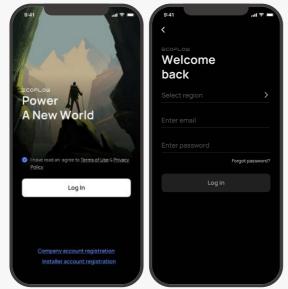


1 INSTALL ECOFLOW PRO APP (FOR INSTALLER)

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

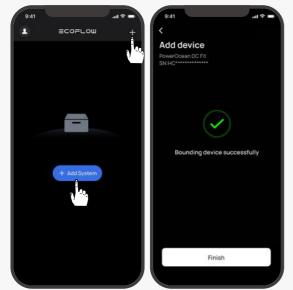


- 2 LOG IN & REGISTER
 - Enter the installer account and password.



3 ADD SYSTEM

Tap Add System or + to automatically search for Bluetooth devices nearby, and select EcoFlow PowerOcean DC Fit to bind.



- You can find the device serial number (S/N) in the product nameplate.
 - If a firmware update prompt pops up, please follow it to upgrade the device to the latest version before proceeding.

• Images may vary from app versions.

4 COMMISSIONING

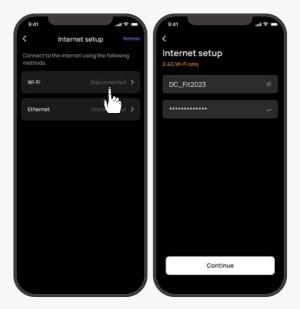
After binding the device successfully, the device enters the commissioning process.

Step1: Internet Setup

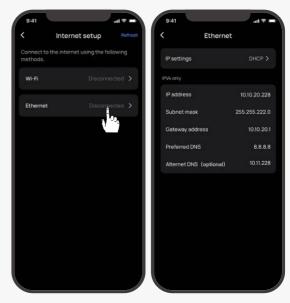
Tap Internet setup to start the network configuration.

• Via a wireless network

Select $\ensuremath{\text{Wi-Fi}}$, enter the wireless network name and the password of the installation site.



• Via a wired network Select Ethernet to set IP mode.



- -ŷ- In DHCP mode, the device obtains IP address automatically.
 - In Static mode, network administrator (homeowner) should set a valid IP address to the device. To avoid IP address conflict, check the IP addresses of other devices on the network by accessing router's settings.

Step2: Home Settings

Tap Home Settings to set necessary parameters.



Step3: Device Settings

Tap **Device Settings** to set necessary parameters.



Step4: Grant User Access

Tap **Grant user access** to generate an accessing QR code for home owner.



5 CUSTOMER SERVICE

Help the home owner to download the $\ensuremath{\mathsf{EcoFlow}}$ app and bind the device.

Step1: Install EcoFlow App

(FOR USER)

Scan the QR code or download at:

https://download.ecoflow.com/app



Step2: Scan user grant QR code

Home owner scan the system QR code displayed on the installer's phone to bind the device.

