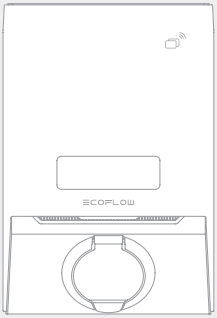
INSTALLATION GUIDE

V1.2



Manual

EcoFlow PowerPulse 2
EV Charger

For more details, check the latest user manual or related documents.

https://energy.ecoflow.com/documentation

CONTENTS

Safety Instructions

Symbol Convention

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. **NOTICE** is used to address practices not related to personal injury.

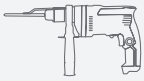
General Precaution

⚠ WARNING

- 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.
- Always disconnect the equipment from all power before any operation.
- Wear proper PPE (Personal protective equipment) before any operations.

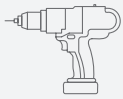
Tools & Accessories Checklist

For Installation



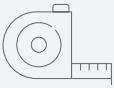
Hammer drill
Φ6mm

T20 Torx
Screwdriver

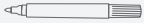


Electrical screwdriver

Mallet



Measuring tape



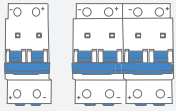
Marker

Level

Protective equipment

For Electrical Wiring

a



Three-phase/single-phase AC circuit breaker, with overload protection and short-circuit protection

b

L1 (+L2+L3)+
N+PE AC cables

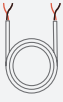
Model	Rated current (A)	a: Rated current of AC circuit breaker (A)	b: Cross section area of conductor (mm²)
EF PP-H02-1 EF PP-H02-2 EF PP-H02-3 EF PP-H02-6 EF PP-H02-7 EF PP-H02-8	32	40	10
EF PP-H02-4 EF PP-H02-5	16	20	4

Multimeter AC voltage measurement range ≥ 400V

Tube type crimp tool

Wire stripper

For Communication Wiring (optional)

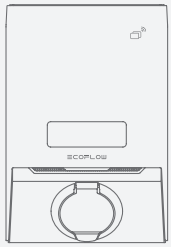


Shielded Twisted Pair cable
(0.5 mm², length ≤15 m)

Tube type wire terminals*2
(0.5 mm²)

What's in the Box

A ×1



Charging Box

B1 ×1

B2 ×1

B3 ×1

B4 ×1

Power Input Connector

C1 ×1

C2 ×1

C3 ×8

COM Connector

D ×1

Fixing Template

E1 ×4

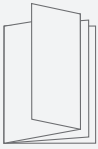
E2 ×4

Wall Installation Kits
(one spare set)

F ×2

Charging Card

G ×1



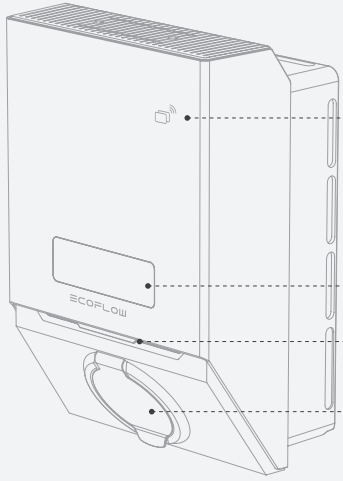
Product Documents

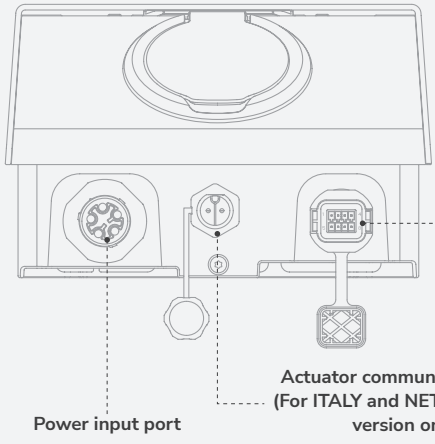
H ×1

Actuator Communication connector (For ITALY and NETHERLANDS version only)

- The appearance of the product may be optimized to enhance the user experience. Please refer to the actual product.

Product Overview

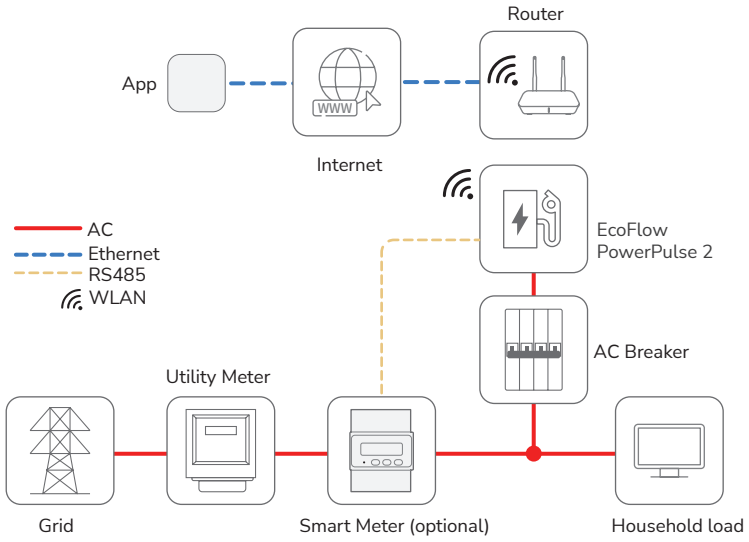




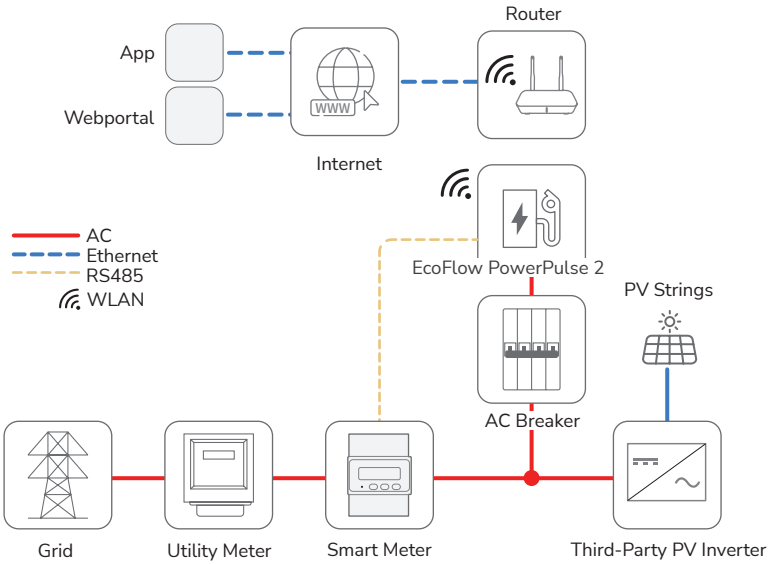
Application Scenarios

The EcoFlow EV Charger can operate in standalone mode or in combination with either EcoFlow PowerOcean system or third-party PV system.

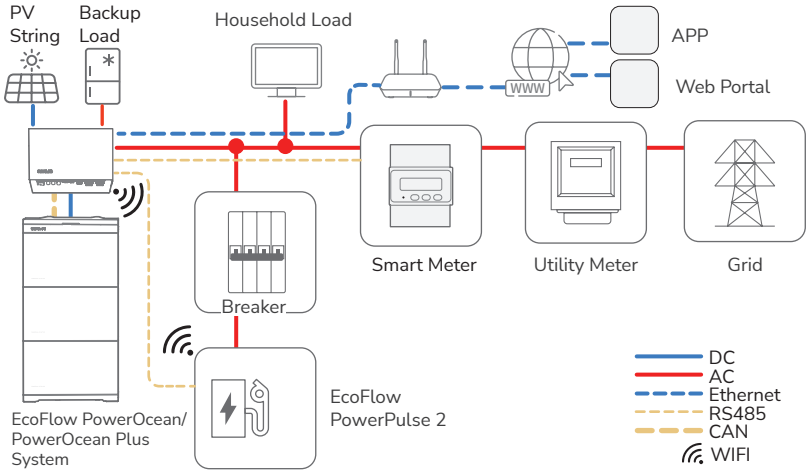
Standalone Operation Overview



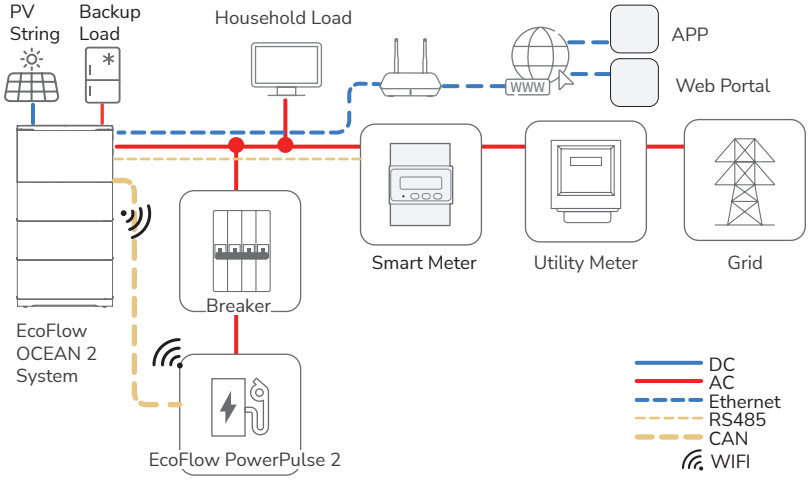
Use with Third-Party PV System



Use with EcoFlow PowerOcean/PowerOcean Plus System



Use with EcoFlow OCEAN 2 System



Installation Guide

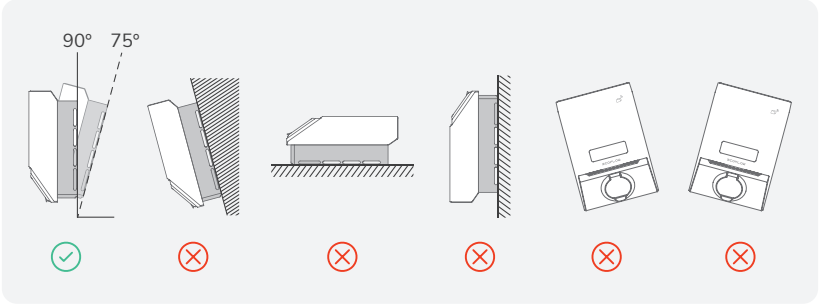
Installation Environment Requirements

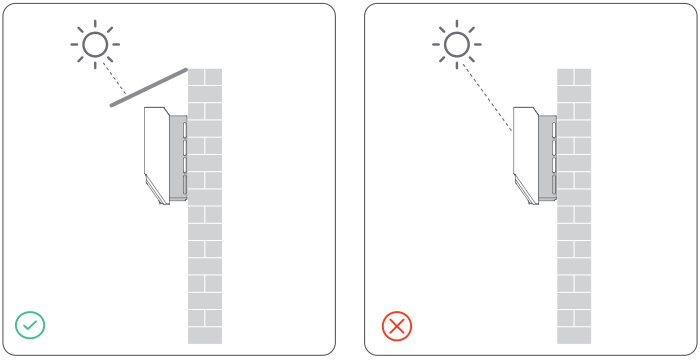
- EV Charger is protected to IP54 (without charging cable) and can be installed indoors or outdoors.
- The installation position should be close to both the parking spot (car charging port) and distribution box to ensure that the cable is not stretched by force.
- The mounting structure where the EV Charger is installed must be fire resistant. Do not install the equipment on flammable building materials.
- The EV Charger must be installed in a well-ventilated environment to ensure good heat dissipation.

- EV Charger should be installed on flat, vertical surface capable of supporting its weight (e.g. wall, pedestal, etc.).
- Ensure that the installation site is level, vibration-free and free from contamination.
- When drilling holes, avoid the water pipes and power cables buried in the wall.
- Do not install the EV Charger near flammable, explosive, or caustic sources.
- Do not install the EV Charger in environment with strong electromanetic fields to aoid radio interference.
- EV Charger should be installed in a location that avoids direct solar radiation, which might cause overheating of the EV Charger resulting in derated output. You are advised to install the EV Charger in a sheltered place or install an awning over it.
- Do not connect other loads under the EV Charger, which should be installed in a dedicated electric circuit.

Installation Angle Requirements

- Install the EV Charger vertically or at a maximum back tilt of 15 degrees to facilitate heat dissipation.
- Do not install the EV Charger at forward tilted, excessive back tilted, side tilted, horizontal, or upside down positions.

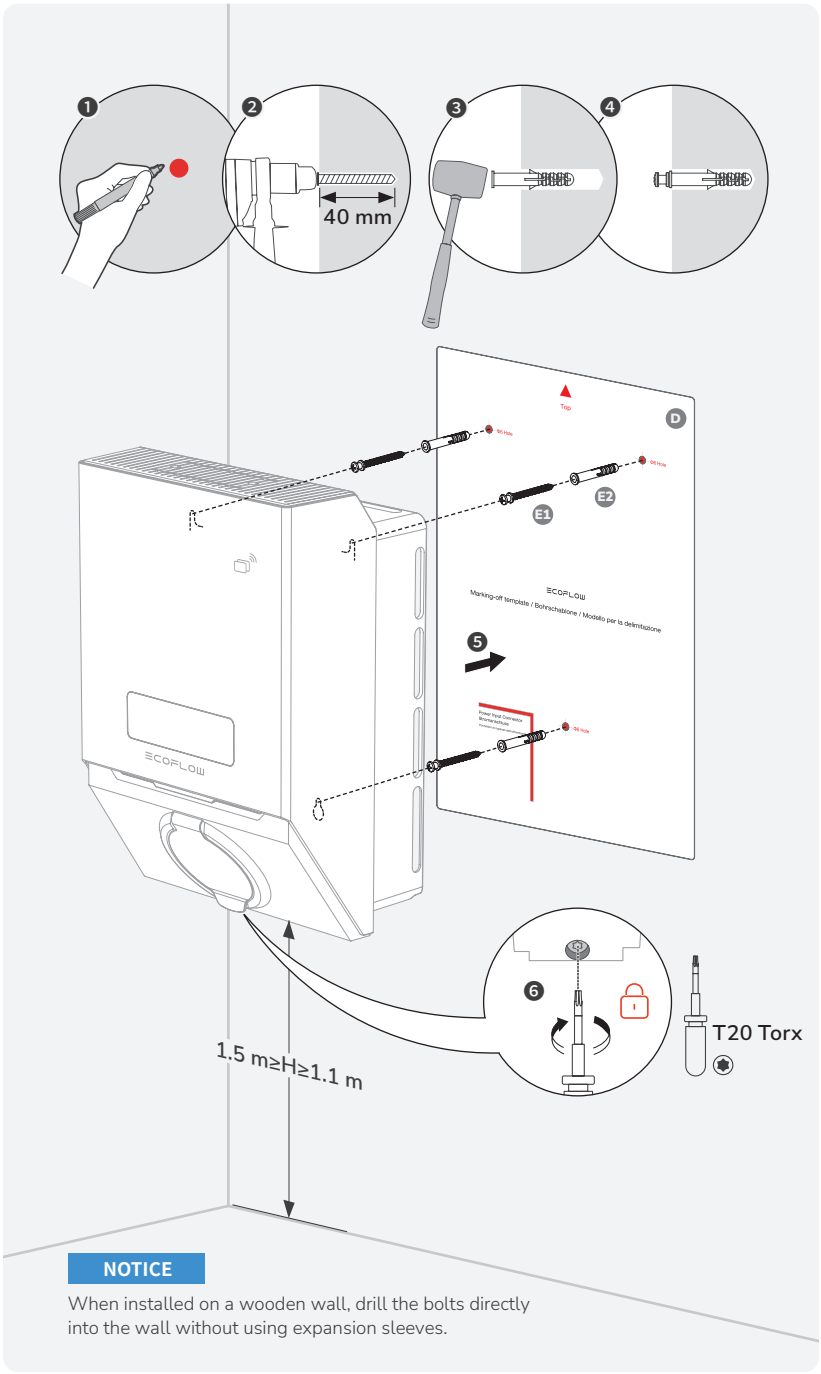




Installation Space Requirements

- Reserve ample clearance around the EV Charger to ensure sufficient space for installation and heat dissipation.
- Maintain the recommended clearances to walls as well as to other charging stations, inverters or objects.
- If multiple EV Chargers are mounted in areas with high ambient temperatures, increase the clearances between the products and ensure sufficient fresh-air supply.
- The space needed to park the electric vehicle to be charged must be taken into account.

Installation Steps



NOTICE

When installed on a wooden wall, drill the bolts directly into the wall without using expansion sleeves.

Electrical Connection

⚠ CAUTION

- All electrical connections must be carried out by a professionally trained and certified electrician.
- Certified RCBO should be installed upstream close to the charging station. All these protection devices shall be chosen with appropriated technical specification:
  - working voltage ≥ charging station working voltage.
  - working current ≥ charging station working current.
  - Ingress Protection (IP) ≥ IP54.
- Please make sure all cables are connected correctly before turning on the upstream RCBO.
- In case of a short circuit, the I^2t value at the EV socket of the EV Charger should not exceed 65,000 A^2s.

NOTICE

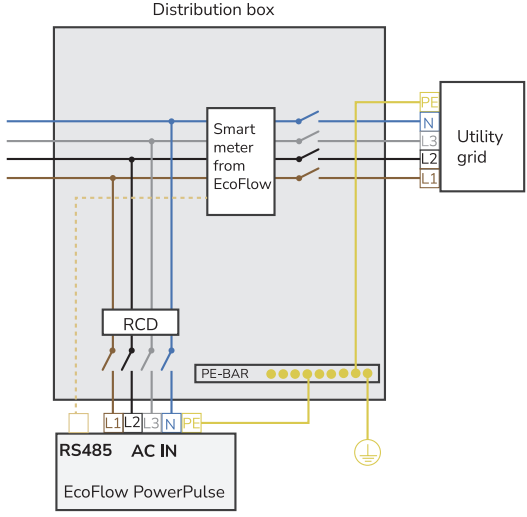
- Please purchase cables that meet local certification standards.
- Do not remove the protective cap of unused terminals. Otherwise, the IP rating of the equipment will be affected.
- The cable colors shown in the figures are for reference only. Select an appropriate cable according to the local standards.
- Do not connect other loads under the EV Charger, which should be installed in a dedicated electric circuit.
- Before installing this product, it is important to measure the present load of your home electrical circuit and ensure that it can carry the operating current of this product, otherwise the circuit will be tripped.
- After powering on the product, it will initiate device testing. To confirm that the self-check process has been successful, verify that there are no abnormal indicator light effects (refer to the section on Indicator Light for more information).

Wiring Diagram

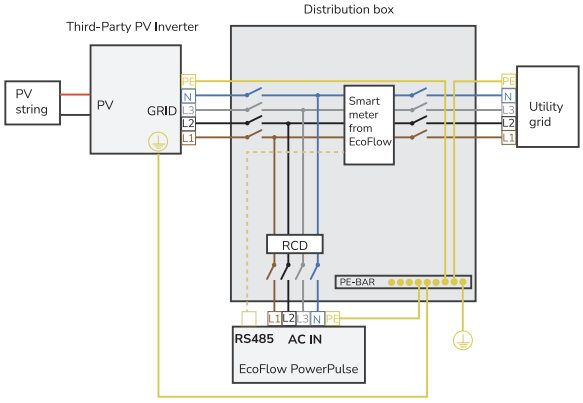
Standalone Operation

NOTICE

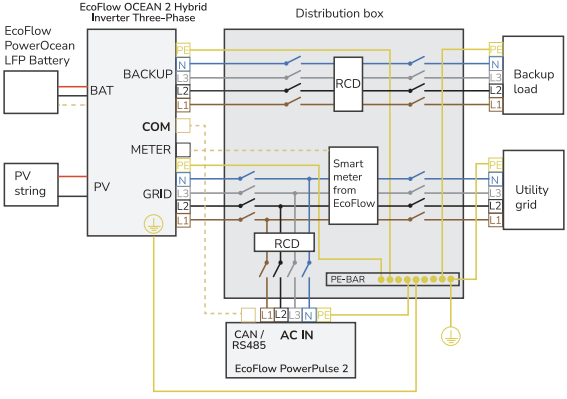
Wiring may vary based on the regulation requirements of different regions. Refer to the specific requirements of local regulations.



Use with Third-Party PV System

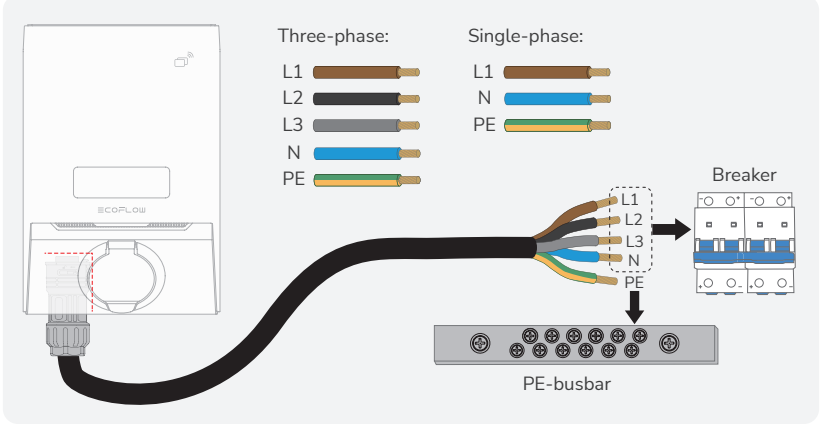


Use with EcoFlow PowerOcean / Ocean 2 Series

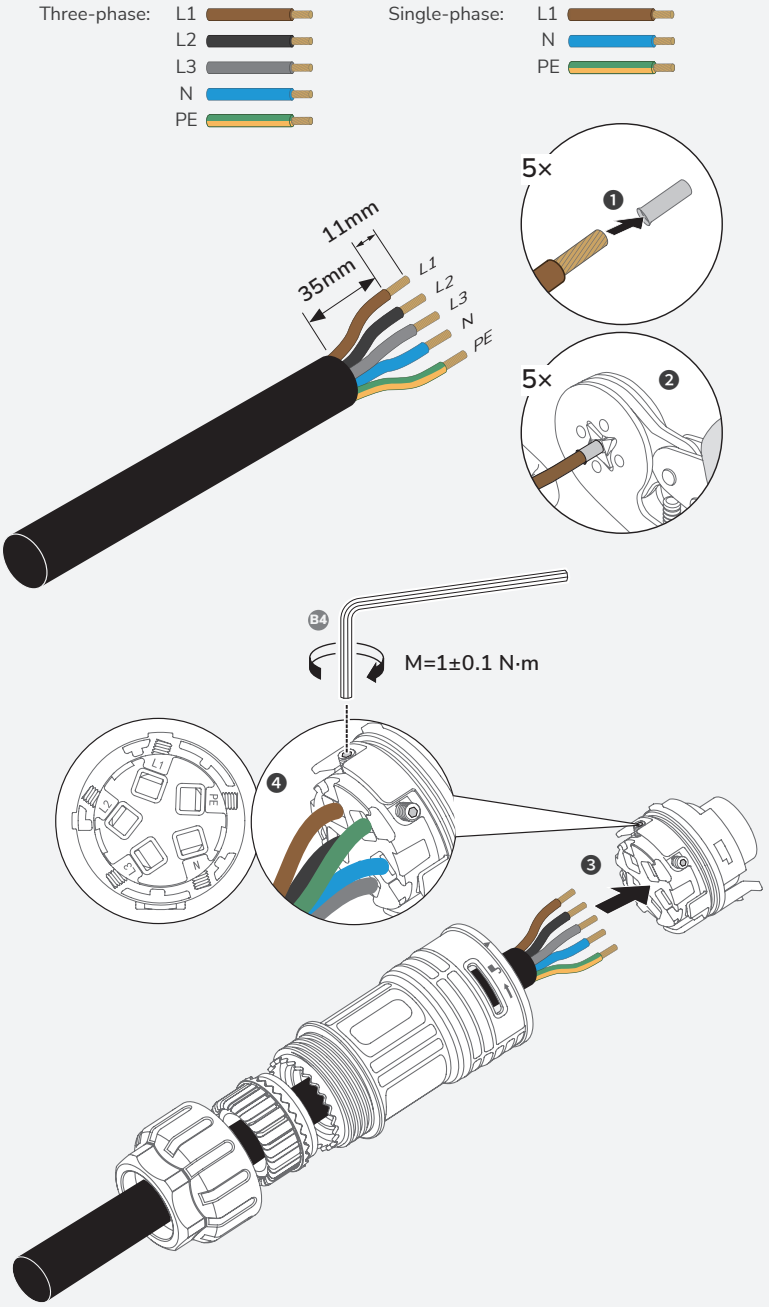


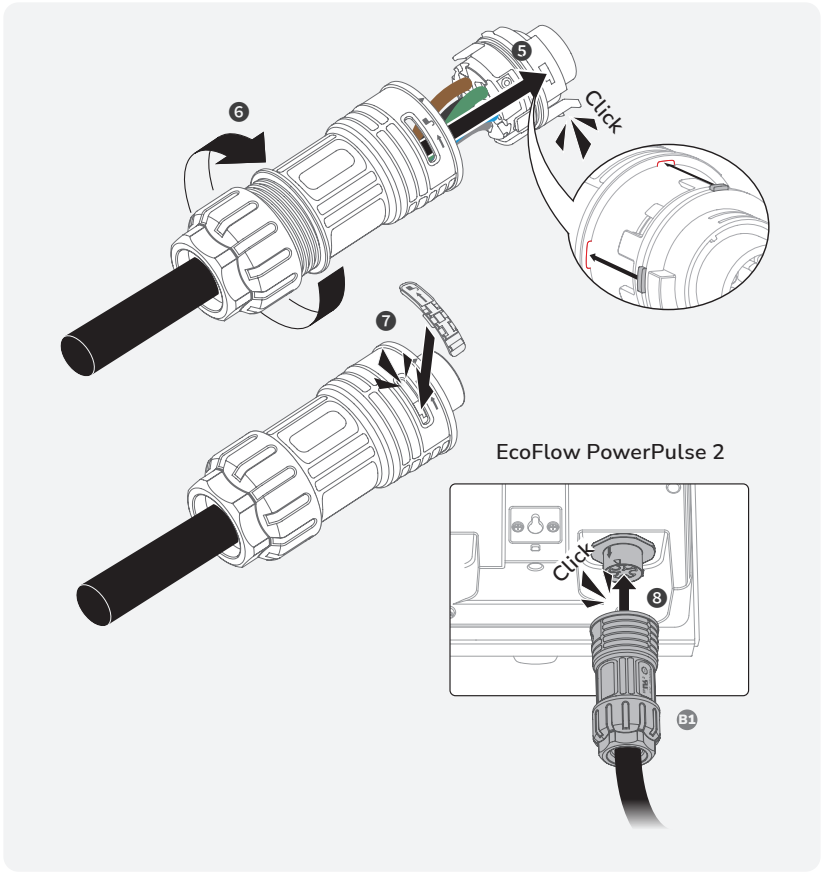
Connecting Power Input Cables

Connection to AC Breaker



Connection to EcoFlow PowerPulse





(Optional) Establishing communication with EcoFlow PowerOcean/ PowerOcean Plus/OCEAN 2

NOTICE

- In solar storage charging and standalone operation (solar charging or load balancing) scenarios, EcoFlow PowerPulse 2 must communicate with external meter via a shielded twisted pair cable.
- During system interconnection, ensure stable and reliable network connectivity between the EV charger and the EcoFlow PowerOcean/ PowerOcean Plus/OCEAN 2.

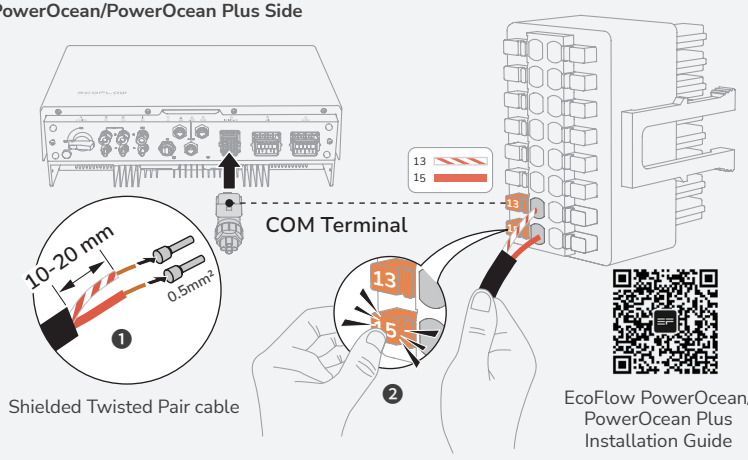
- Method 1: Wired connection (RS485 /CAN)

EcoFlow PowerOcean / PowerOcean Plus — EcoFlow PowerPulse 2

EcoFlow OCEAN 2 — EcoFlow PowerPulse 2

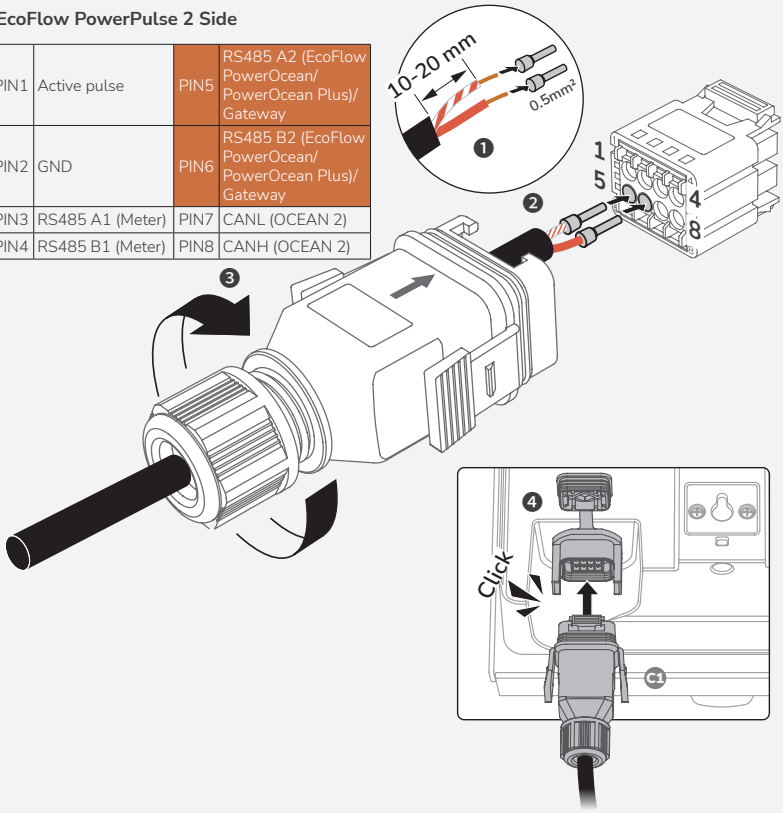
Communicate with EcoFlow PowerOcean/PowerOcean Plus

PowerOcean/PowerOcean Plus Side



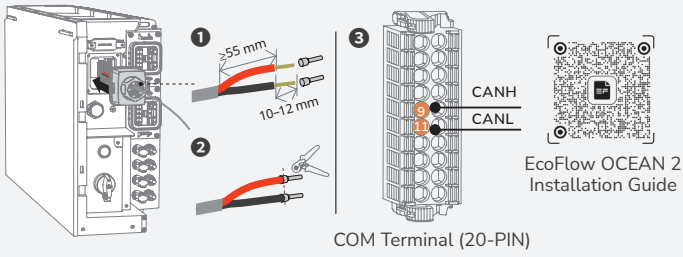
EcoFlow PowerPulse 2 Side

PIN1	Active pulse	PIN5	RS485 A2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN2	GND	PIN6	RS485 B2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN3	RS485 A1 (Meter)	PIN7	CANL (OCEAN 2)
PIN4	RS485 B1 (Meter)	PIN8	CANH (OCEAN 2)



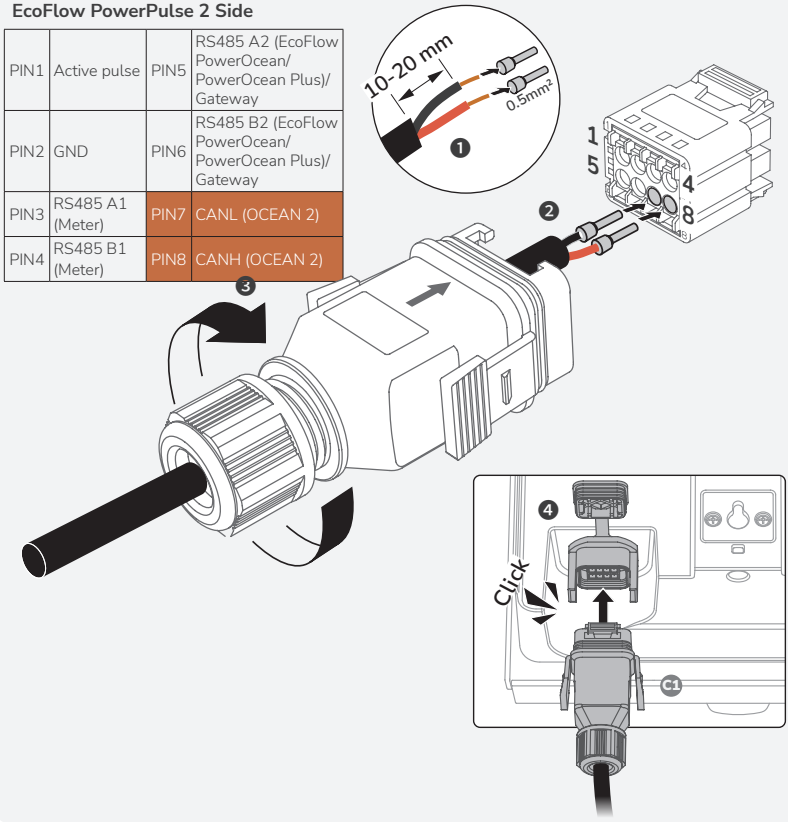
Communicate with EcoFlow OCEAN 2

OCEAN 2 Side



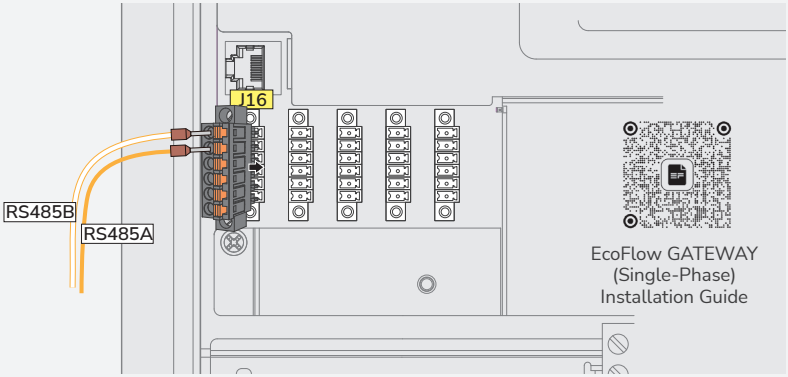
EcoFlow PowerPulse 2 Side

PIN1	Active pulse	PIN5	RS485 A2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN2	GND	PIN6	RS485 B2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN3	RS485 A1 (Meter)	PIN7	CANL (OCEAN 2)
PIN4	RS485 B1 (Meter)	PIN8	CANH (OCEAN 2)



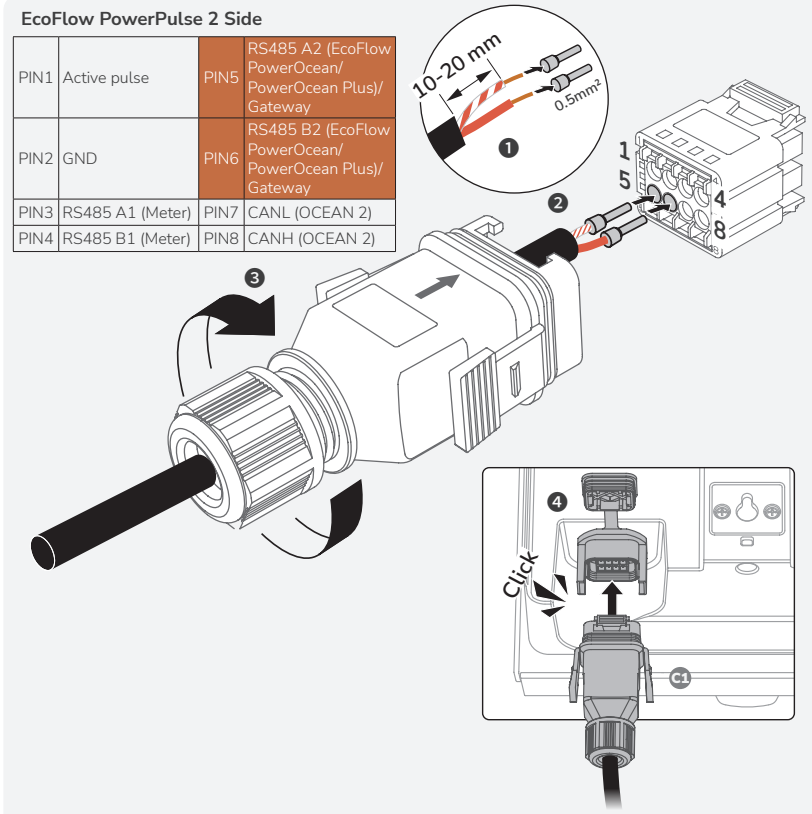
Communicate with EcoFlow GATEWAY (Single-Phase) (22kW)

GATEWAY Side



EcoFlow PowerPulse 2 Side

PIN1	Active pulse	PIN5	RS485 A2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN2	GND	PIN6	RS485 B2 (EcoFlow PowerOcean/ PowerOcean Plus)/ Gateway
PIN3	RS485 A1 (Meter)	PIN7	CANL (OCEAN 2)
PIN4	RS485 B1 (Meter)	PIN8	CANH (OCEAN 2)



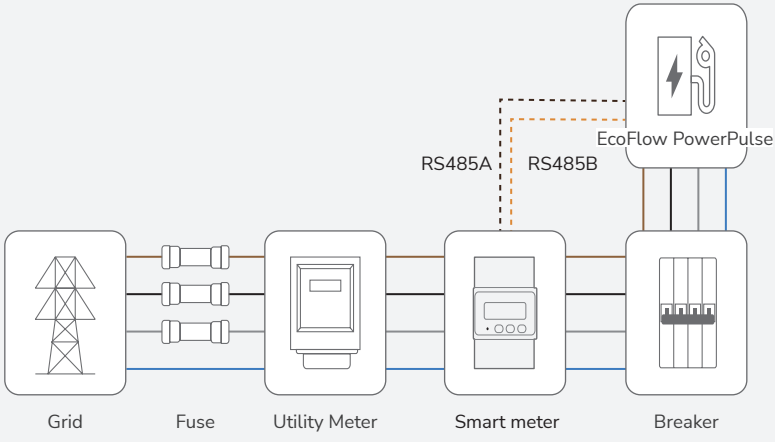
• Method 2: Wireless connection (Wi-Fi)

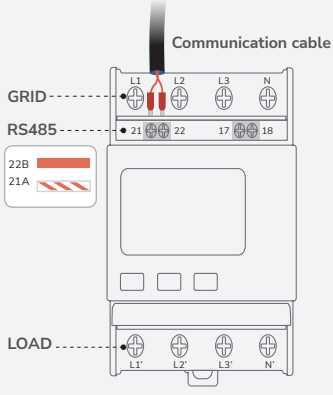
Accessing the same wireless network

Go to EcoFlow PowerOcean/PowerOcean Plus/ OCEAN 2 ⚙ **Device Settings** to add device on system component page.

(Optional) Installing Smart Meter

Connection to Smart Meter





EcoFlow Smart Meter (sold seperately)

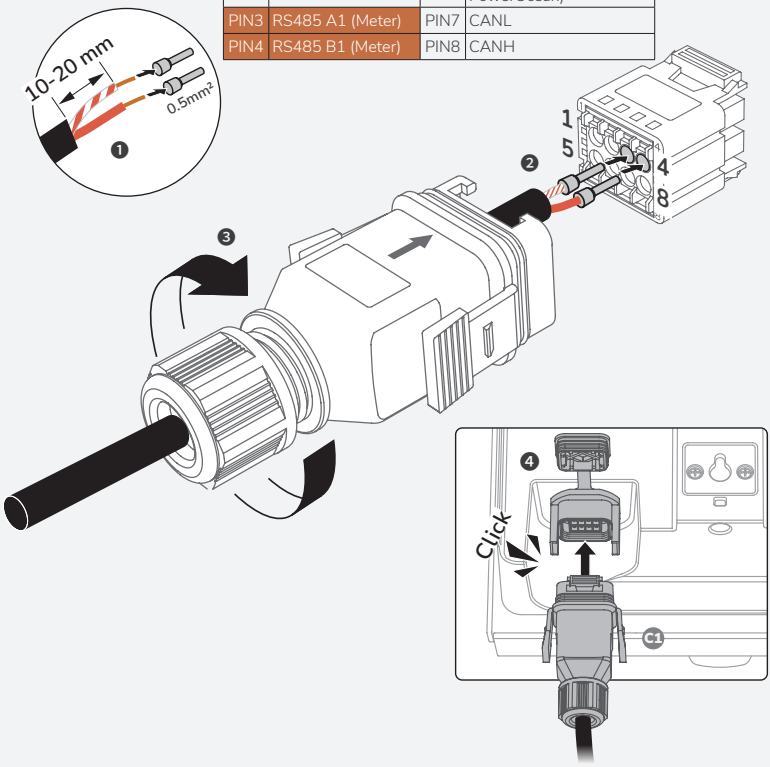
Compatible Meter Models
ADL200N-CT
ADL400
ADL400N-CT
YDM201D
DTSU666

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

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

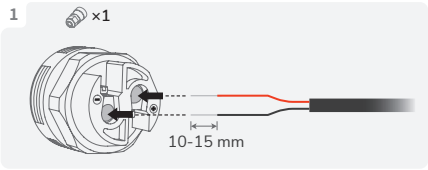
Connection to EcoFlow PowerPulse

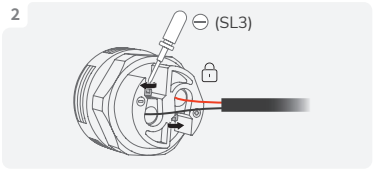
PIN1	Active pulse	PIN5	RS485 A2 (EcoFlow PowerOcean)
PIN2	GND	PIN6	RS485 B2 (EcoFlow PowerOcean)
PIN3	RS485 A1 (Meter)	PIN7	CANL
PIN4	RS485 B1 (Meter)	PIN8	CANH



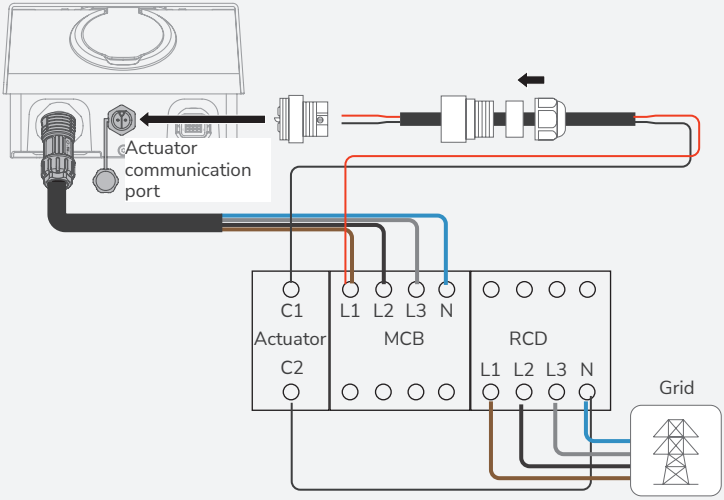
Installing a Motorized Actuator (For ITALY and NETHERLANDS version only)

In accordance with the IEC 61851-1 standard, for the Italy and the Netherlands version of the product, in addition to the residual-current devices and thermal-magnetic circuit breakers, an additional motorized actuator (by connecting it to the dry contact) must be installed, which is capable of interrupting the power supply to the EV Charger when it goes into a specific fault state. The mechanical isolating devices to be used for this purpose could be motor controls coupled to the residual-current circuit breaker, trip coils or any other device compatible with that type of contact, as chosen by the installer. See the connection diagram below.



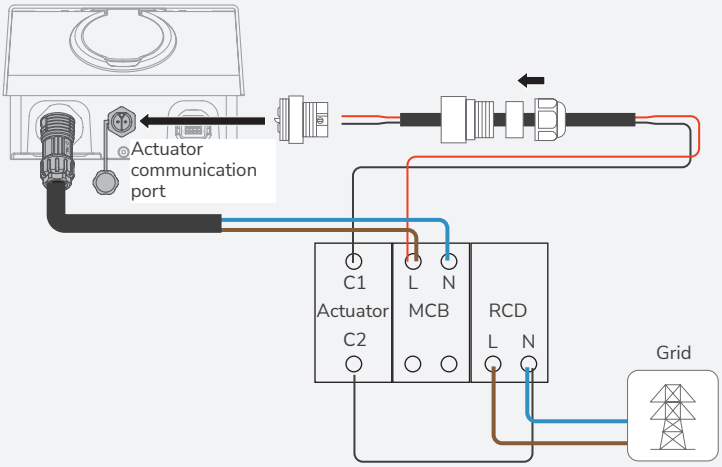


EcoFlow PowerPulse 2



3-phase connection

EcoFlow PowerPulse 2

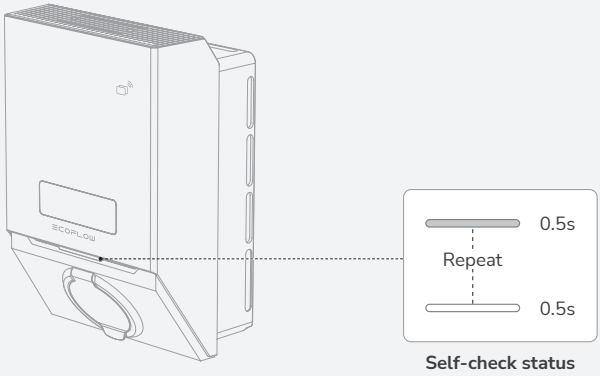


Single-phase connection

Recommended Devices				
Combination		Product Number	Model	Brand
1	MCB+RCD	A9F28240+A9V56240	iC65H -C40A/2P+ VMA 30mA	Schneider
	Mechanical isolating devices	A9A26946	iMX+OF AC-12 6 A at 230 V, AC 50 Hz	Schneider
2	MCB+RCD	A9F28440+A9V56440	iC65H -C40A/4P+ VMA 30mA	Schneider
	Mechanical isolating devices	A9A26946	iMX+OF AC-12 6 A at 230 V, AC 50 Hz	Schneider
3	MCB+RCD	A9F28420+A9V56440	iC65H -C20A/4P+ VMA 30mA	Schneider
	Mechanical isolating devices	A9A26946	iMX+OF AC-12 6 A at 230 V, AC 50 Hz	Schneider
4	MCB+RCD	2CDS272001R0404+ 2CSB202101R1400	S202M-C40+ DDA202 A-40/0.03	ABB
	Mechanical isolating devices	2CDS200982R0002	S3C-A2	ABB
5	MCB+RCD	2CDS274001R0404+ 2CSB204101R1400	S204M-C40+ DDA204 A-40/0.03	ABB
	Mechanical isolating devices	2CDS200982R0002	S3C-A2	ABB
6	MCB+RCD	2CDS274001R0204+ 2CSB204101R1250	S204M-C20+ DDA204 A-25/0.03	ABB
	Mechanical isolating devices	2CDS200982R0002	S3C-A2	ABB
7	MCB+RCD	5SY4240-7CC+ 5SM2322-6	5SY4240-7CC+ 5SM2322-6	Siemens
	Mechanical isolating devices	5ST3030	5ST3030	Siemens
8	MCB+RCD	5SY4440-7CC+ 5SM2342-6	5SY4440-7CC+ 5SM2342-6	Siemens
	Mechanical isolating devices	5ST3030	5ST3030	Siemens
9	MCB+RCD	5SY4420-7CC+ 5SM2342-6	5SY4420-7CC+ 5SM2342-6	Siemens
	Mechanical isolating devices	5ST3030	5ST3030	Siemens

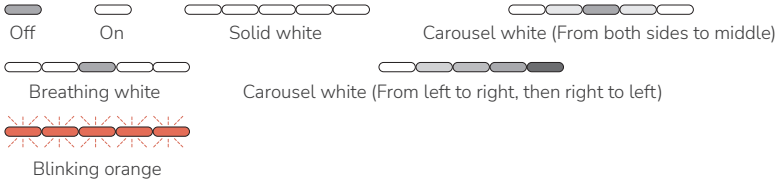
System Power-On

1. To energize the PowerPulse, turn ON the branch breaker.
2. The product will carry out self-check automatically.
3. The product is ready to use after self-check completes.



Self-check status

LED Indicator



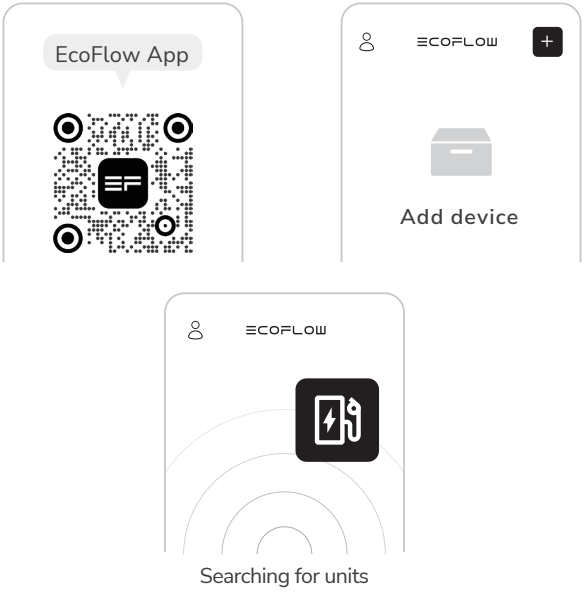
Indicator status	Indications
For 30 seconds, then OFF	Standby/Charging cable plugged in, but not yet charging.
	Charging
	InsufficientPV power, charging suspended
	Firmware upgrade/Self check
	Error occurs. See the LCD display for more information, or check it on the device page of EcoFlow App

LCD Display

Icons		Indications
Metering module	VER	Software version
	CRC	Check bit
	kWh	Total electricity consumption
Relay	RLY DAF	Relay on/off
Network communication		Wi-Fi connected
		Bluetooth connected
Access to energy storage system		Access to EcoFlow PowerOcean system
Error		Error code
Power supply		PV input
		Grid power input
		Battery input
Charging		Charging
		PV power insufficient, charging suspended
	A	Input current
	V	Input voltage
	kW	Output power
	%	EV SOC
	kWh	Output energy
		Accumulated charging hours

Charging mode		Solar mode
		Fast charging mode
		Manual mode
		Smart mode

App Control



NOTICE Go to Device Settings to share your PowerPulse with other EcoFlow app users.

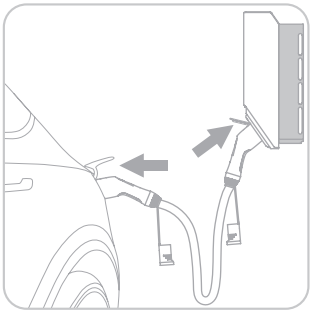
Charge Your EV

• Method 1: Via EcoFlow App

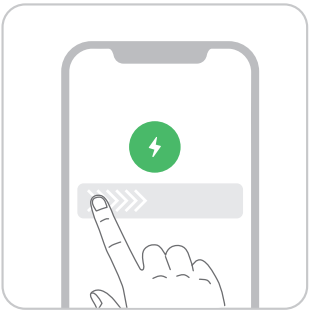
NOTICE

- Charging cable is not included in the scope of delivery. Please use charging cable that has been certified by IEC 62196-2 and meets the requirements of the standard.
- You can also purchase a charging cable that is officially authorized for use with EcoFlow.
- If the product is damaged by using a charging cable that is not officially authorized for use with EcoFlow or required by IEC 62196-2 certification standards, it will not be covered by the warranty.

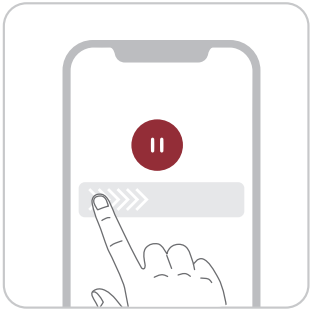
⚠ WARNING Do not use adapters or extensions not specified by the EV manufacturer as they may damage the product and create safety hazards for the user.



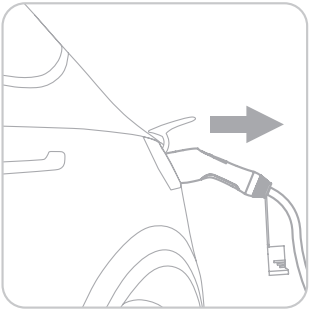
①



②



③



④

① Plug one end of your charging cable (not included) into the PowerPulse's EV Charging AC Socket Outlet and the other end into your EV charging port.

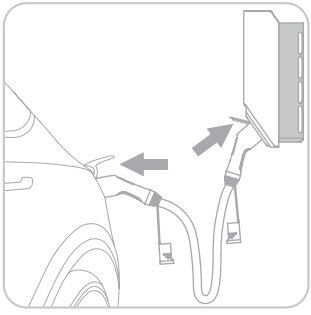
② Tap ON to charge.

③ Tap OFF to stop.

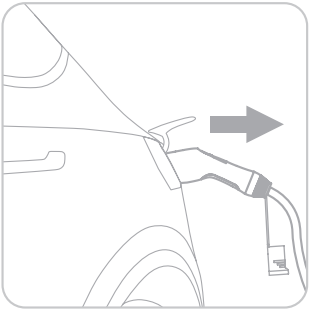
④ Unplug both ends of the charging cable from your PowerPulse and EV.

- Method 2: Plug and Play

NOTICE Go to ⬡ **Device Settings** of EcoFlow App to enable plug and play function.



①

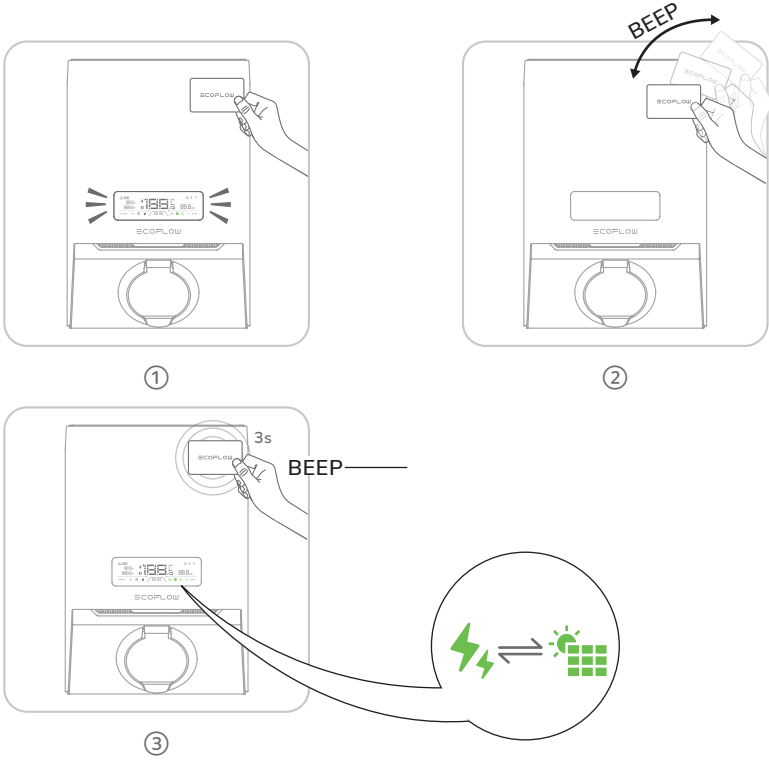


②

① Plug one end of your charging cable (not included)into the PowerPulse's EV Charging AC Socket Outlet and the other end into your EV charging port.

② Unplug both ends of the charging cable from EcoFlow PowerPulse and EV.

• Method 3: Using Charging Card



① Locate the contactless symbol on the top right of the EV charger. Hover the included charging card over the contactless symbol for identification to light up LCD display. If the identification fails, you will hear “BEEP BEEP BEEP”.

② To charge or to stop charging, hover your charging card over the contactless symbol and move it away after you hear one short "BEEP".

③ To change charging modes between solar mode and fast charing mode, hover your charging card over the contactless symbol for 3 seconds until you hear a long "BEEP",which indicates that charing mode is changed successfully, as you can see on the screen of your PowerPulse.

PAP

Raccolta carta