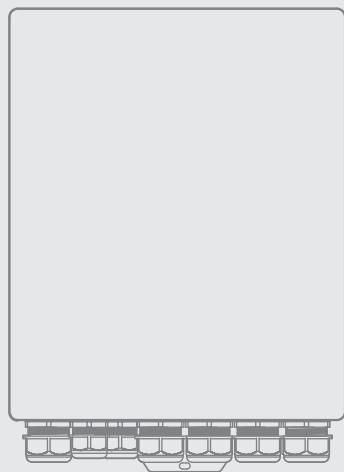


ECOFLOW GATEWAY (SINGLE-PHASE)



For the latest documents, please scan the QR code or visit:
Q <https://enterprise.ecoflow.com/eu/documentation>

IMPORTANT

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

CONTENTS

- 01 **Safety Instructions**
 - 01 Disclaimer
 - 01 Symbols
- 03 **Product Introduction**
 - 03 Product Features
 - 03 Appearance
 - 03 Maintenance Compartment and Wiring Terminals
 - 04 System Deployment
 - 07 Schematic Diagram
 - 07 System Operating Mode
 - 08 Preparing Tools and Instruments
- 08 **What's In The Box**
- 09 **System Installation**
 - 09 Installation Space Requirements
 - 09 Wall Mount
- 10 **Electrical Connection**
 - 10 Preparing Cables
 - 12 Opening the Maintenance Compartment
 - 12 Installing the Grid AC Output Power Cable
 - 13 Installing the Inverter AC Input Power Cable
 - 13 Installing the Backup Load Output Power Cable
 - 13 Installing the Non-backup Load Output Power Cable
 - 13 Installing the Power Cable of EcoFlow PowerPulse 2 EV Charger
 - 14 Installing the Signal Cable
- 17 **System Commissioning**
 - 17 Check Before Power-On
 - 17 Closing the Maintenance Compartment
 - 17 System Power-On
- 17 **System Maintenance**
 - 17 System Power-Off
 - 18 Routine Maintenance
 - 18 Bypass Switch Operating Instructions
- 19 **Technical Parameters**

SAVE THESE INSTRUCTIONS

This manual contains important instructions that shall be followed during installation and maintenance.

en

Safety Instructions

I Disclaimer

This product includes essential printed documentation required for setup and basic usage. For detailed manuals, resources, and the most up-to-date information about the product, visit <https://homebattery.ecoflow.com/documentation>. Fully read and understand the product documentation prior to use. Improper use may result in serious injury, damage, or property loss. By using this product, you agree to and accept all terms outlined in the product documentation. EcoFlow is not liable for losses, damages, or injuries caused by misuse or non-compliance.

I Symbols

The shell or nameplate of this product includes safety symbols to indicate potential hazards. Please review these signs and their meanings as detailed in the table below:

* "This product" or "the device" refers to the EcoFlow Gateway (Single-Phase) throughout this document.

Symbol	Description
	CAUTION Disconnect the device from all voltage sources before servicing.
	Risk of Electric Shock
	Reading Manual Read the user manual and all safety instructions carefully before installation, operation, and maintenance.
	CE Marking The device complies with the essential requirements of the relevant EU legislation.
	WEEE Directive Do not dispose of the device as household waste. Follow local electronic waste disposal regulations.



- Before installing, operating, and maintaining the equipment, read and follow Installation Guide.
- All operating and wiring must comply with national and local requirements of the relevant standards.
- 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 all sources of supply before proceeding.
- Wear proper PPE (Personal protective equipment) before any operations.
- Do not work with power on during installation or maintenance.
- Do not touch the exposed electrical cable or parts with bare hands.
- **GROUNDING INSTRUCTIONS:** This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.
- Do not use any unofficial or unrecommended components or accessories. For any replacements, please contact EcoFlow for further assistance.
- Please use the preset holes of this product. Do not drill holes or modify the frame yourself. Otherwise, the warranty will be voided.
- Install the product in a tidy, dry, and well-ventilated environment.
- Follow the environment temperature requirements specified in the product specification to use or store the product. Avoid degradation or damage to the product, or risks to personal safety due to excessively high or low temperatures.
- Do not wet the product, or leave it in a humid environment for an extended period of time. Do not allow the junction box or wire connectors to come into contact with liquids.
- Keep the product out of the reach of children and pets.
- Do not pierce the product with sharp objects.
- Do not insert wires or other metal objects into the product to prevent short circuits.



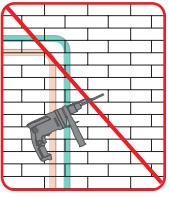
- Do not disassemble, repair, or modify this product by yourself. For any maintenance or service, contact the EcoFlow Customer Service.
- Do not scrawl, damage, or block any warning labels on the product.
- Do not clean the product with flammable or toxic solvents. Wipe it with a dry soft cloth.



AVOID DIRECT
SUNLIGHT, RAIN, OR
SNOW



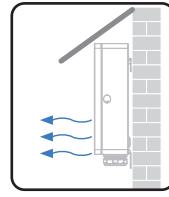
DO NOT MOUNT IN A
CROOKED MANNER.



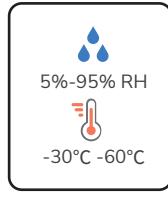
AVOID THE WATER
PIPES AND POWER
CABLES



AWAY FROM SOLVENT/
GASOLINE/HEAT
SOURCE/MOISTURE/
EXPLOSIVE MATERIAL/
FLAMMABLE
MATERIAL/INFRARED
RADIATION

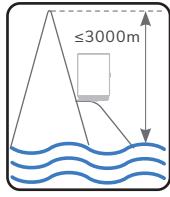


WELL-VENTILATED
AREA ONLY



IP54

5% - 95% RH
-30°C - 60°C



ALTITUDE

Product Introduction

en

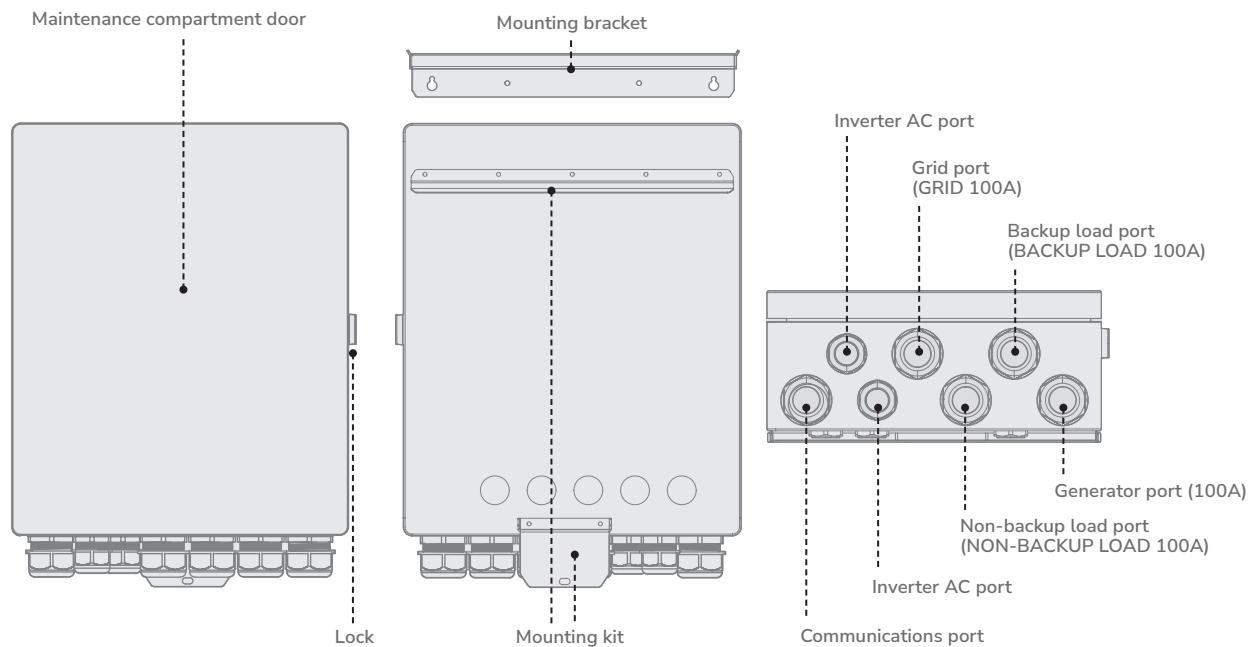
I Product Features

EcoFlow Gateway (single-phase) is a smart backup module that works with EcoFlow PowerOcean single-phase home solar battery systems to build a whole home backup system. In this setup, PowerOcean (single-phase) inverter controls operation of the system, while the Gateway monitors energy usage and manages the switchover between on-grid and off-grid modes. Additionally, the Gateway is compatible with ecologically compatible products such as EcoFlow PowerPulse 2 EV Charger, generator and third-party PV system.

I Appearance



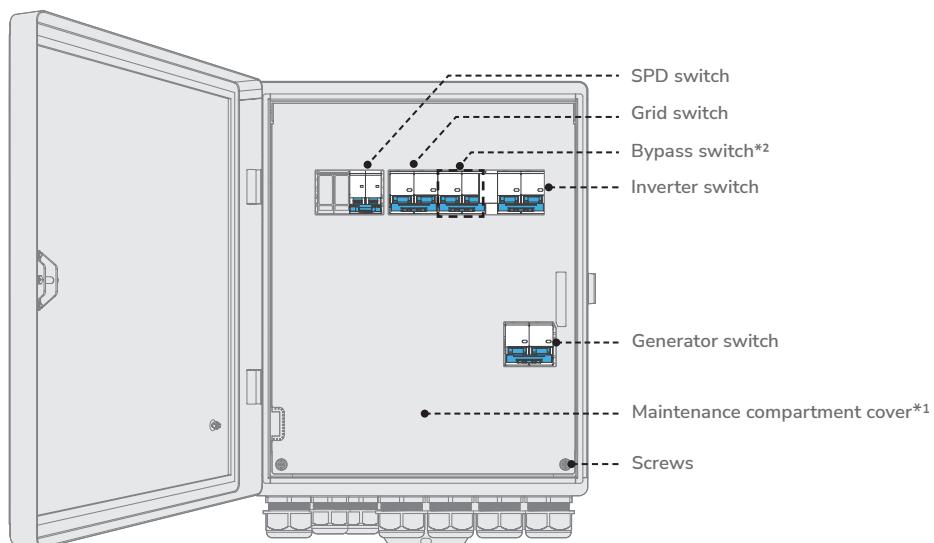
- Before maintenance, power off the main circuit breaker, the inverter, and the DC switches of the inverter and battery.

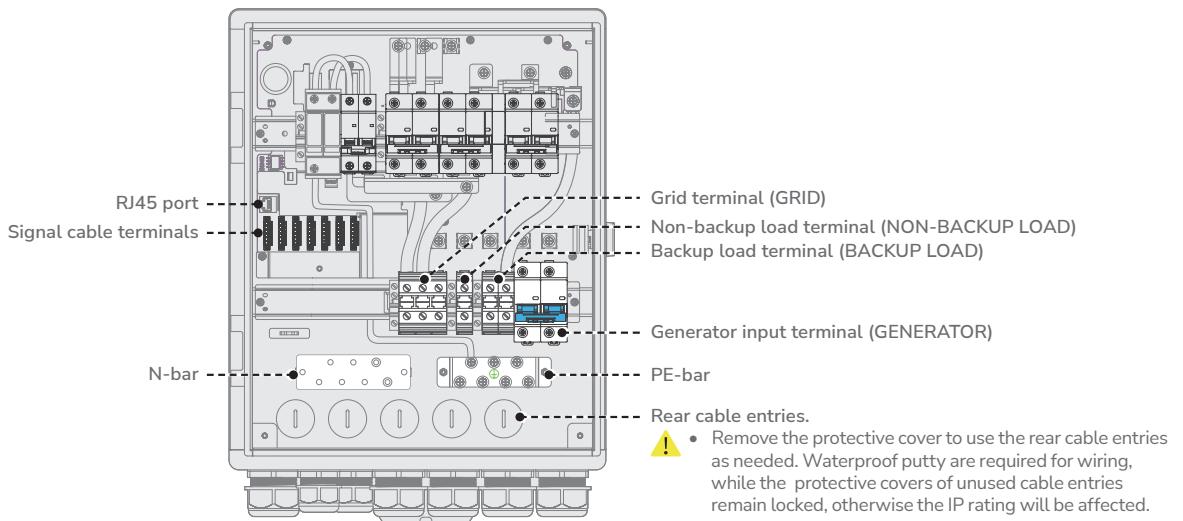


I Maintenance Compartment and Wiring Terminals



- *1 Only authorized personnel can open the maintenance compartment cover to perform electrical connections.
- *2 During deployment and normal use, do not operate the bypass switch. Ensure that the bypass switch is off.
- *3 Use preset cable entries. Do not modify the module frame without permission, otherwise this may void the warranty.



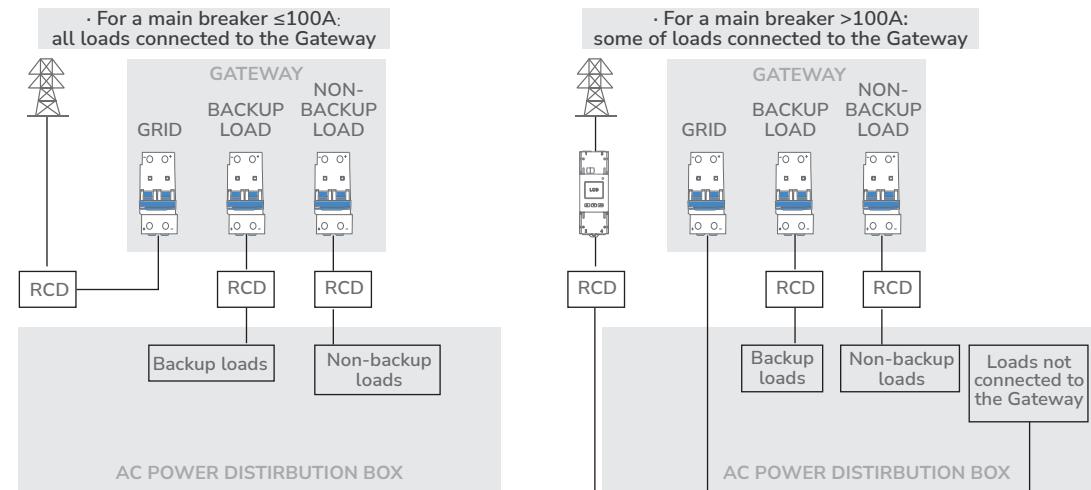


I System Deployment

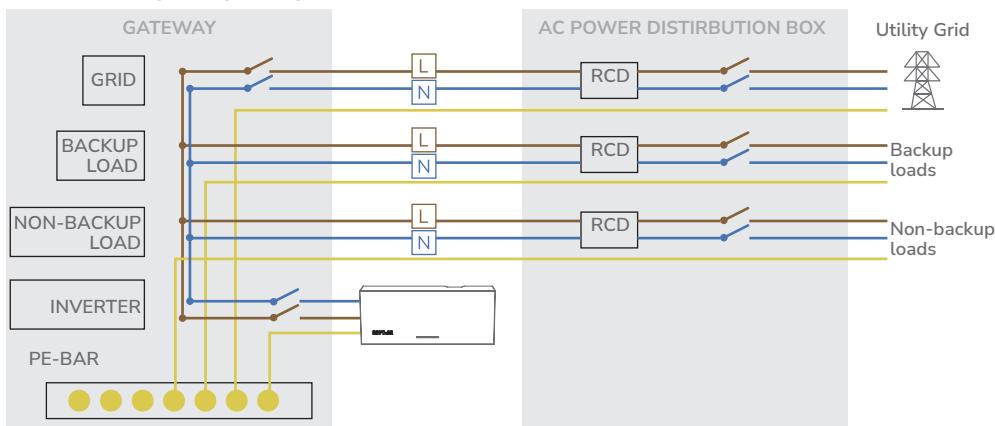
PLAN OF LOADS CONNECTED TO THE GATEWAY



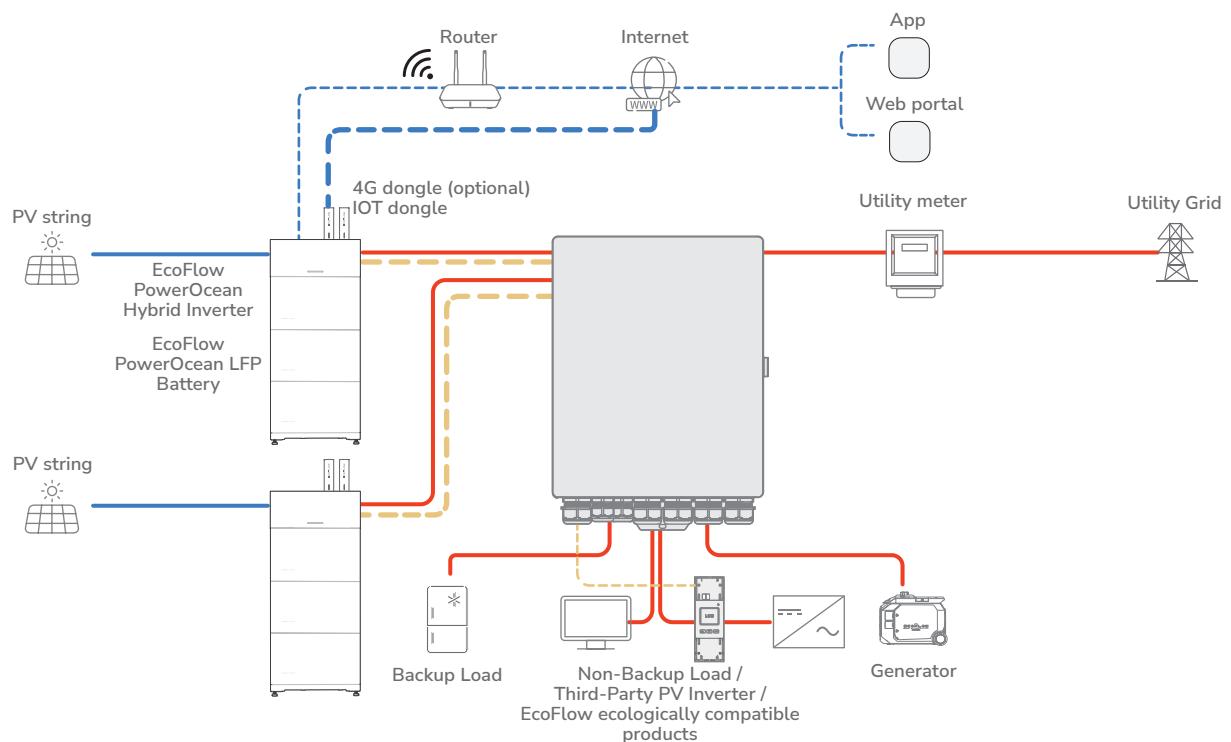
- For a main breaker $\leq 100A$, all loads can be connected to the Gateway. For a main breaker $>100A$, only some of loads are permitted.
- If the generator deployed in the system runs in off-grid mode, make sure the load power is within the generator capacity, otherwise the generator may shut down due to overload.
- Backup loads exceeding off-grid capacity may trip the inverter. Disconnect loads or move low-priority ones to non-backup ports.



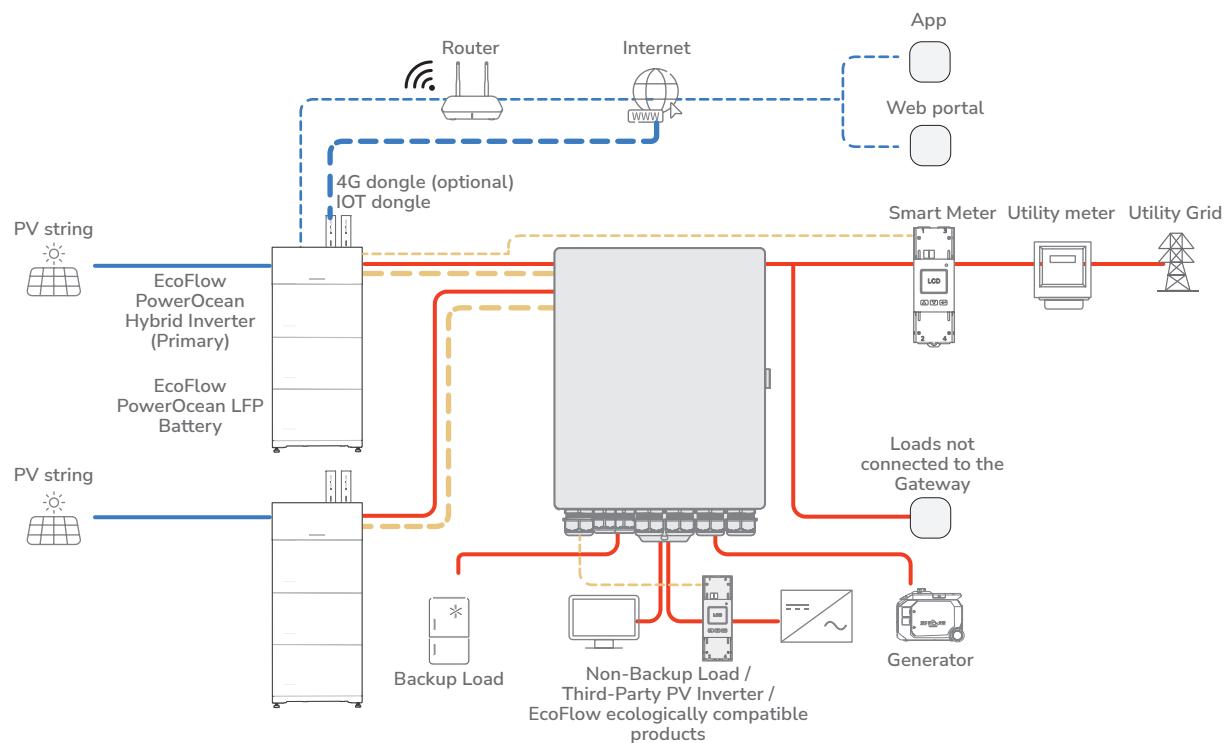
RESIDENTIAL WIRING DIAGRAMS



SYSTEM OVERVIEW (WITH ALL LOADS CONNECTED TO THE GATEWAY)



SYSTEM OVERVIEW (WITH SOME OF LOADS CONNECTED TO THE GATEWAY)



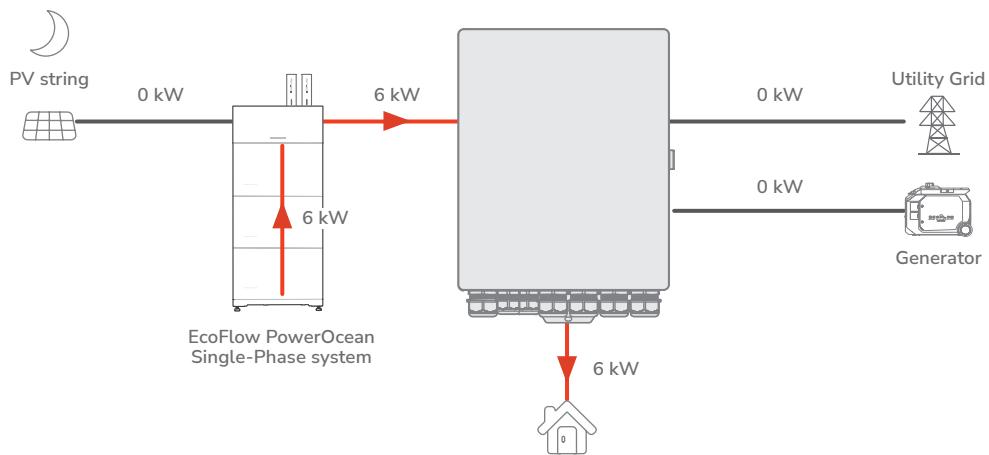
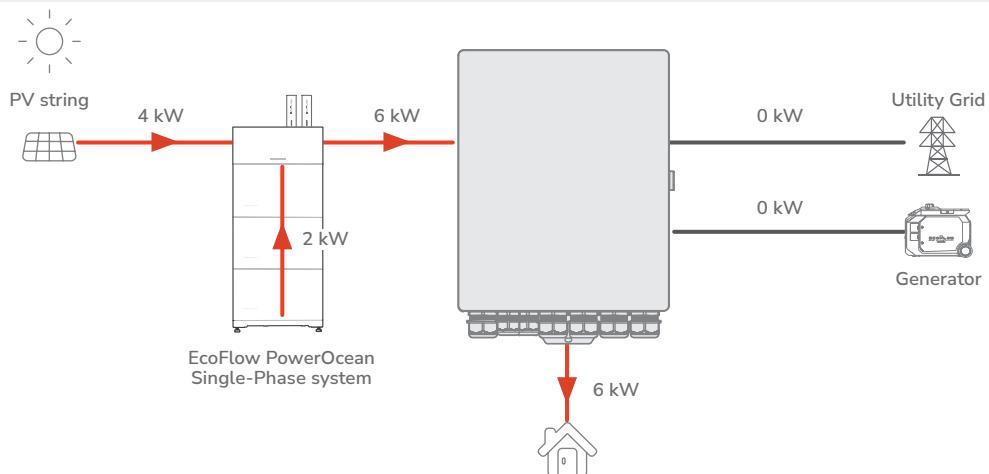
— DC - - - Ethernet - - - - RS485 ⚡ WiFi
 — AC - - - 4G (optional) - - - - CAN

OFF-GRID OPERATING CAPACITY

Off-grid max power is capped by the inverter (e.g., 6 kW) and ESS capacity (e.g., 15 kWh).

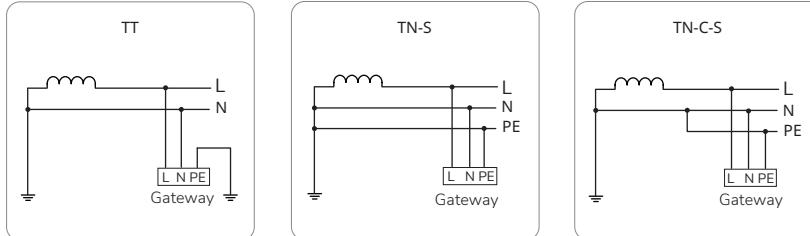


- When the inverter is off-grid, make sure the peak load current and duration are within the off-grid running capability of the inverter.

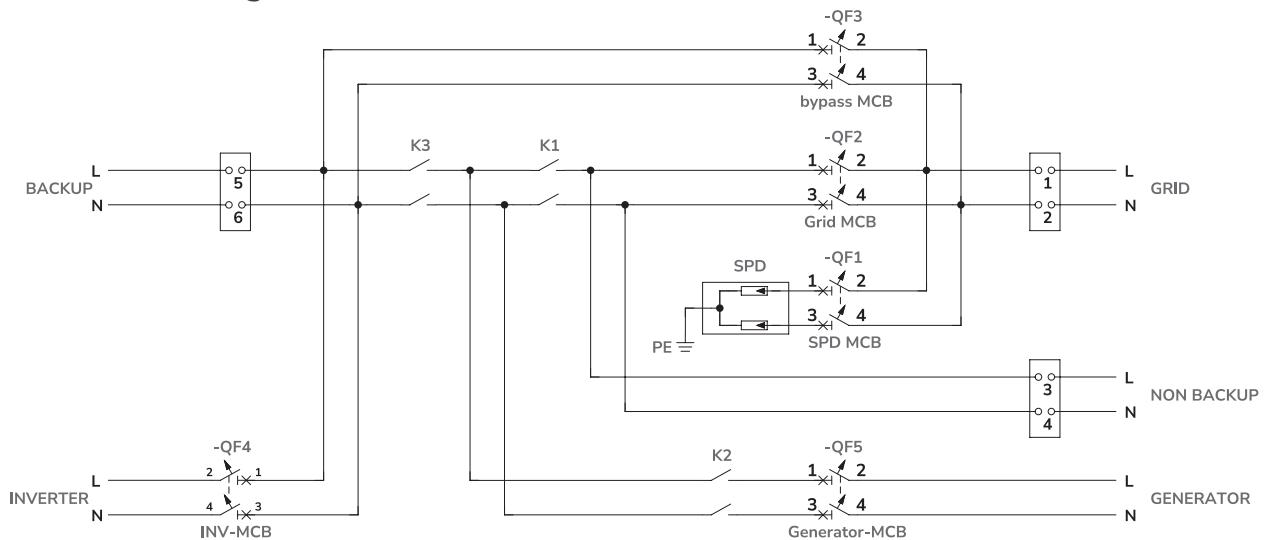


Parameter	EF HD-P1-3K-S1	EF HD-P1-3.68K-S1	EF HD-P1-4.6K-S1	EF HD-P1-5K-S1	EF HD-P1-6K-S1
Off-grid power	3000 W	3680 W	4600 W	5000 W	6000 W

SUPPORTED POWER GRID TYPES



I Schematic Diagram



I System Operating Mode

During normal operation, circuit breakers QF1, QF2, QF4, and QF5 must be switched ON, while QF3 must be switched OFF.

On-grid mode When the utility grid is operating normally, the system will automatically transition to on-grid mode. Relay K1 and K3 will be switched ON automatically while K2 will be switched OFF. In this mode, the utility grid and inverter will supply power to backup/non-backup loads.

Off-grid mode When the utility grid is abnormal, the system will automatically transition to off-grid operation. Relay K2 and K3 will be switched OFF automatically. In this mode, the backup loads are powered by the inverter, while the non-backup loads lose supply.

Generator backup mode If the system is equipped with a generator, relay K2 and K3 will be switched ON automatically while K1 will be switched OFF.

- Generator Start: If battery SOC < Start Threshold, the generator supplies power to backup/non-backup loads and charges the battery.
- Generator Stop: When battery SOC ≥ Stop Threshold, the generator shuts down, and the inverter supplies power to backup loads only.
- Grid Restoration: The system automatically reconnects to the grid, resuming on-grid mode.

If a fault is detected

Bypass mode

- Power off the EcoFlow PowerOcean Single-Phase system. Refer to the inverter installation guide for details.
- Switch on QF1, QF2, and QF3; switch off QF4 and QF5

 In this mode, the backup/non-backup loads are powered by the grid only; **generator power is unavailable**.

I Preparing Tools and Instruments

ESSENTIAL TOOLS

Hammer drill (with a drill bit of 8mm)	Electrical Screwdriver	Multimeter (DC voltage measurement range ≥ 1000 V DC)	Cable cutter	Wire strippers	Screwdriver (PH2)	Crimping tool (for tubular terminal)

Heat gun

Marker

Steel measuring tape

Cable tie

Heat-shrink tubing

Level

OPTIONAL TOOLS

Safety goggles



Safety shoes



Safety gloves



Dust mask

What's In The Box



- 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.

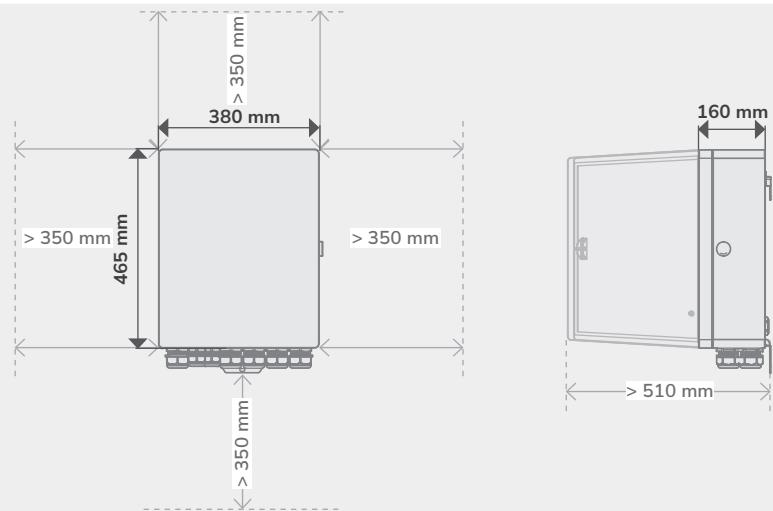
	x1		x1		x7		x5		x5
	Mounting pieces	Communication Terminal	Screws with expansion tubes	Protective Cover 1					
	Protective Cover 2	Key	Marking-off Template	Wiring Terminal (For wire gauge 22AWG/0.5mm ²)	x2	x1	x25		x6
	PE Wiring Terminal	Terminating Resistor	Rubber 4-Hole Grommets		x4				

System Installation

I Installation Space Requirements



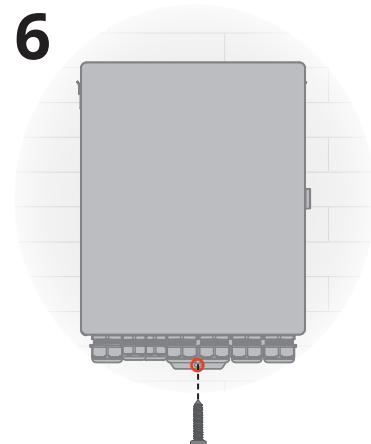
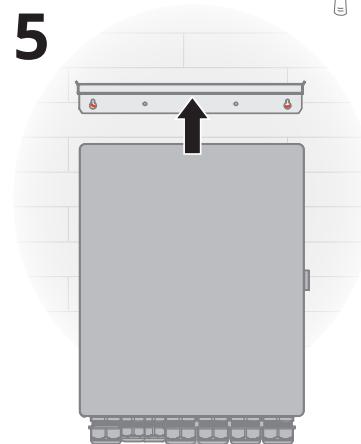
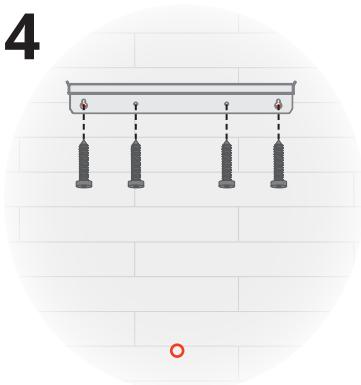
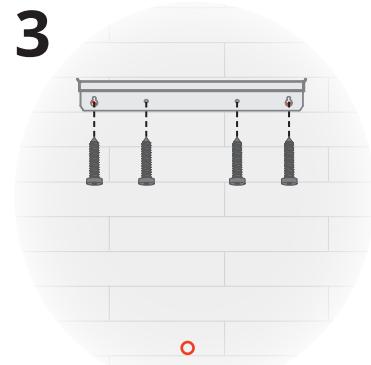
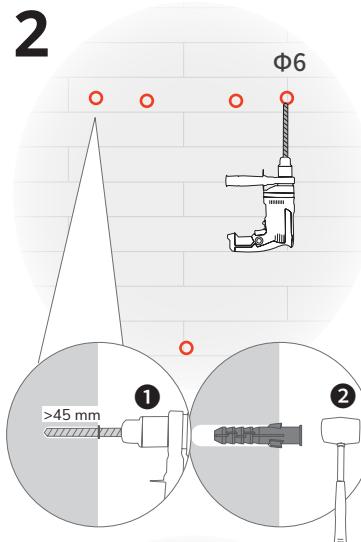
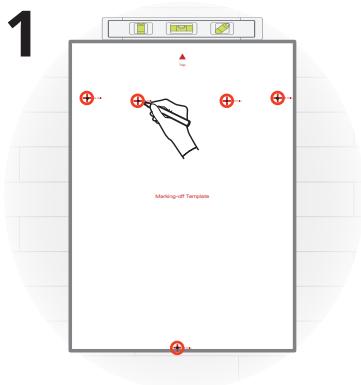
- Reserve sufficient clearance around equipments for installation, operation and heat dissipation.
- Please avoid the inverter's heat dissipation path when deploying the system.



■ Wall Mount



- 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.

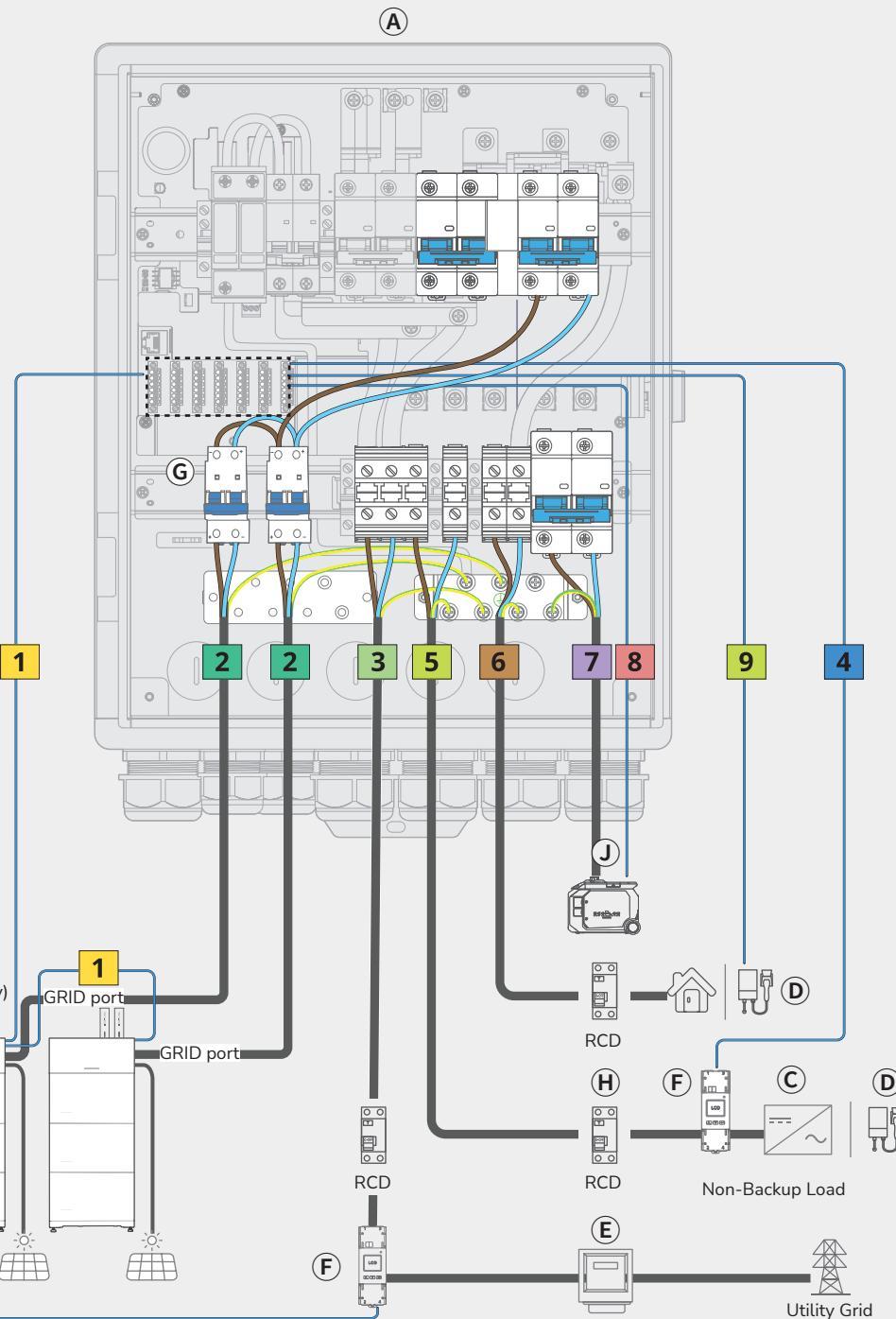


Electrical Connection



- All electrical connections must be carried out by a professionally trained and certified electrician.
- Device damage caused by incorrect cable connections is not covered by the product warranty.
- Before making electrical connections, ensure that the circuit breaker of the Gateway and all connected external switches are in OFF state. Otherwise, it may cause electric shocks.
- Please purchase cables that meet local certification standards.
- The cable colors shown in the figures are for reference only. Select an appropriate cable according to the local standards.
- Wear PPE and use dedicated insulated tools to avoid electric shocks or short circuits.

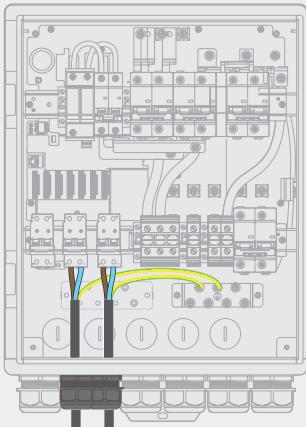
I Preparing Cables



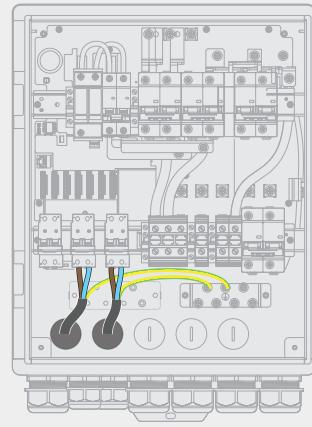
No.	Component	Description	From
(A)	EcoFlow Gateway (Single-Phase)	EF-SG-001	EcoFlow
(B)	EcoFlow PowerOcean Single-Phase system	<p>Inverter: EF HD-P1-3K-S1 EF HD-P1-3.68K-S1 EF HD-P1-4.6K-S1 EF HD-P1-5K-S1 EF HD-P1-6K-S1</p> <p>Battery: EF BD-5.1-S1</p>  <p>The Gateway only supports inverters with batteries; those without batteries will not operate properly.</p>	EcoFlow
(C)	PV Inverter	<ul style="list-style-type: none"> Smart meter is required. Must be connected to NON-BACKUP terminal 	A third party
(D)	EcoFlow PowerPulse 2 EV Charger	EF PP-H02-1 EF PP-H02-2 EF PP-H02-3 EF PP-H02-8	EcoFlow
(E)	Utility Meter	/	/
(F)	EcoFlow Smart Meter	ADL200N-CT (120A), YDM201D (80A) (For scenario where some of loads connected to the Gateway only.)	EcoFlow
(G)	Inverter circuit breaker	Recommended: an AC circuit breaker with a rated current of 32 A.	A third party
(H)	RCD	An RCD must be installed before the backup load. The rated leakage current must be greater than or equal to the number of inverters multiplied by 100 mA.	A third party
(I)	PV string	A PV string is composed of the PV modules connected in series.	EcoFlow / A third party
(J)	Generator	Select a generator with a rated power of 20 kW or less based on the residential load power and the Gateway requirements.	EcoFlow / A third party

No.	Cable	Type	Recommended Specifications
1	Inverter signal cable	Two-core Shielded Twisted Pair cable	Conductor cross-sectional area: 0.5 mm ² , cable outer diameter: 5 mm to 9 mm, length ≤ 30m
2	Inverter AC input power cable (INV1/INV2)	Three-core copper cable	Conductor cross-sectional area: 6 mm ² to 8 mm ² , cable outer diameter: 13 mm to 26 mm
3	Grid AC output power cable	Three-core copper cable	Conductor cross-sectional area: 25mm ² to 35 mm ² , cable outer diameter: 13 mm to 32 mm
4	Smart meter signal cable	Two-core Shielded Twisted Pair cable	Conductor cross-sectional area: 0.5 mm ² , cable outer diameter: 5 mm to 9 mm, length ≤ 30m
5	AC output power cable for the non-backup load	Three-core copper cable	Conductor cross-sectional area: 25 mm ² to 35 mm ² , cable outer diameter: 13 mm to 32 mm
6	AC output power cable for the backup load	Three-core copper cable	Conductor cross-sectional area: 25 mm ² to 35 mm ² , cable outer diameter: 13 mm to 32 mm
7	Generator power cable	Three-core copper cable	Conductor cross-sectional area: 25 mm ² to 35 mm ² , cable outer diameter: 13 mm to 32 mm
8	Generator signal cable	Multi-core Shielded Twisted Pair cable	Conductor cross-sectional area: 0.2 mm ² to 1 mm ² , cable outer diameter: 5 mm to 9 mm, length ≤ 30m
9	EV charger signal cable	Two-core Shielded Twisted Pair cable	Conductor cross-sectional area: 0.5 mm ² , cable outer diameter: 5 mm to 9 mm, length ≤ 30m

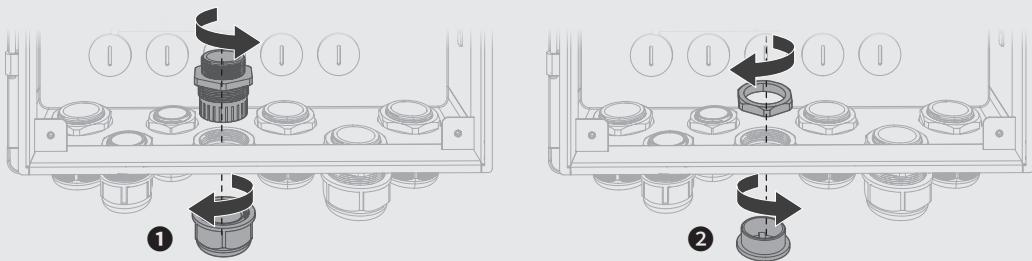
OPTION 1: BOTTOM WIRING



OPTION 2: BACK WIRING



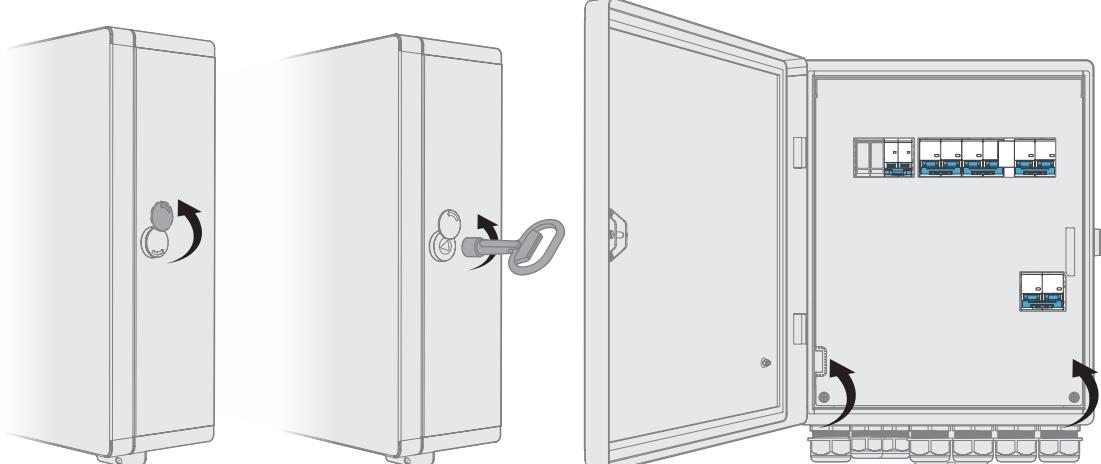
The bottom glands can be removed and replaced with the protective covers included for aesthetic purposes.



I Opening the Maintenance Compartment



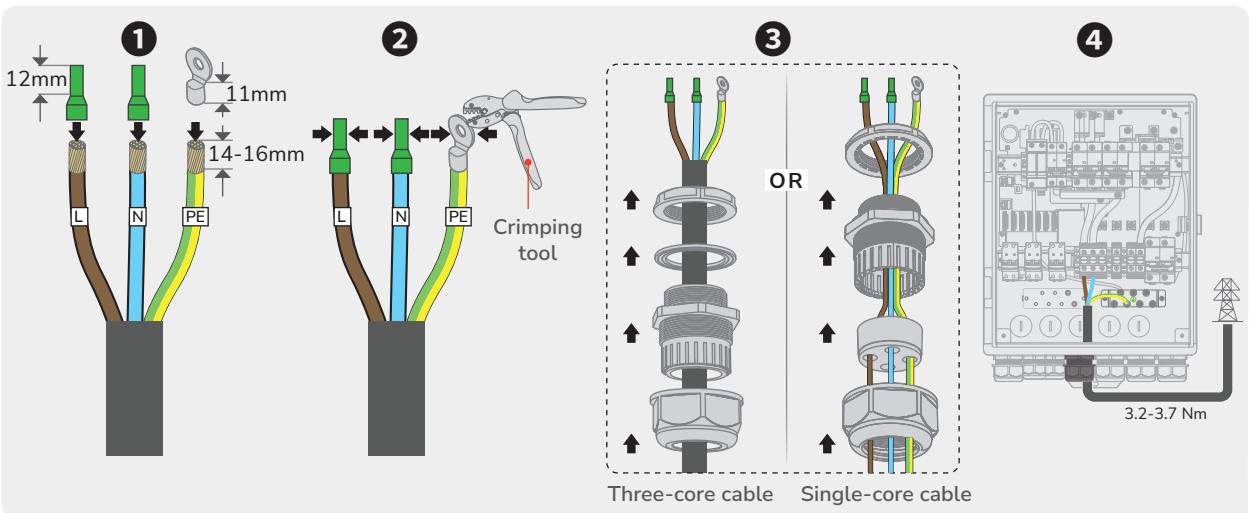
- Before maintenance, power off the main circuit breaker, the inverter, and the DC switches of the inverter and battery.
- Do not operate the bypass switch during site deployment or normal use.



I Installing the Grid AC Output Power Cable

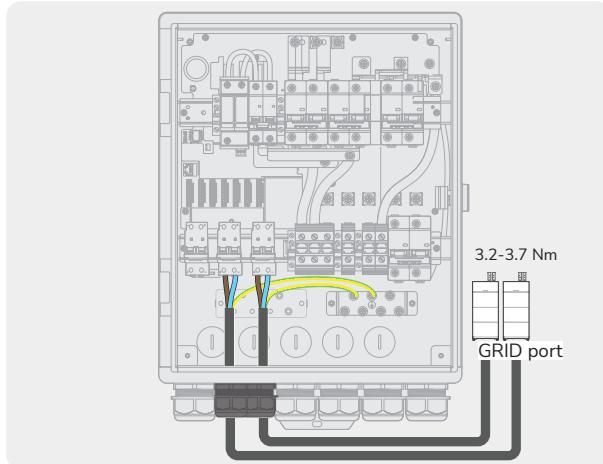


- Select a waterproof rubber plug with the corresponding cable diameter.



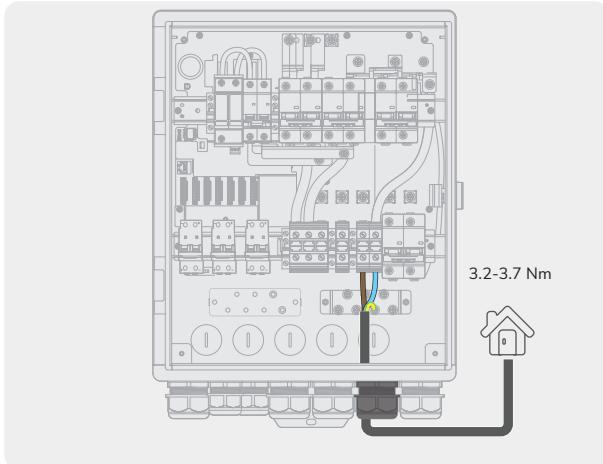
Installing the Inverter AC Input Power Cable

*Please refer to the section **Installing the Grid AC Output Power Cable** for the wire stripping length.



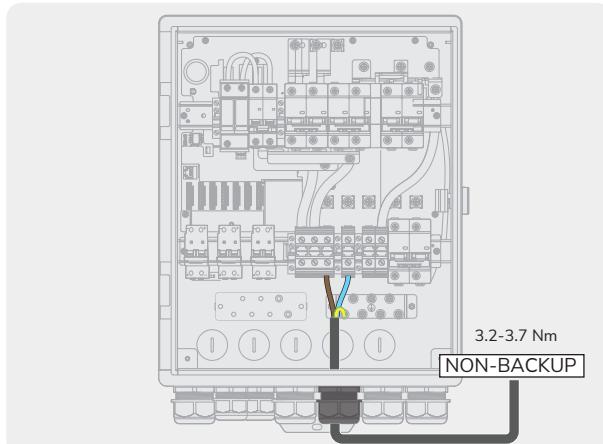
Installing the Backup Load Output Power Cable

*Please refer to the section **Installing the Grid AC Output Power Cable** for the wire stripping length.



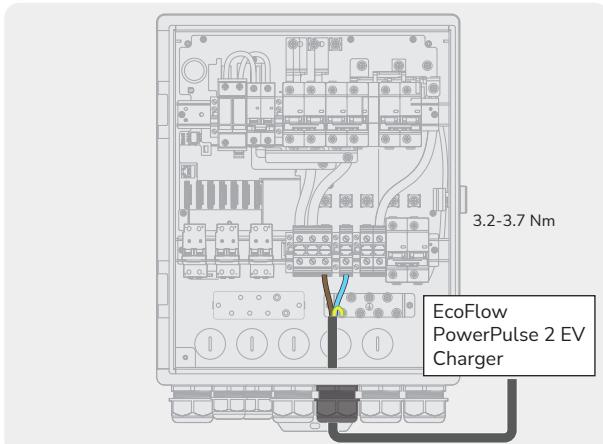
Installing the Non-backup Load Output Power Cable

*Please refer to the section **Installing the Grid AC Output Power Cable** for the wire stripping length.



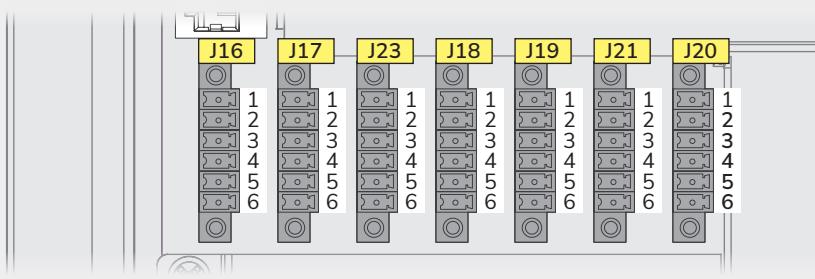
Installing the Power Cable of EcoFlow PowerPulse 2 EV Charger

*Please refer to the section **Installing the Grid AC Output Power Cable** for the wire stripping length.



I Installing the Signal Cable

COM TERMINAL DEFINITIONS



J16 Definition Used for		
PIN1	RS485A0_B	EcoFlow PowerPulse 2 EV Charger
PIN2	RS485A0_A	
PIN3	RS485A1_B	Modbus communication
PIN4	RS485A1_A	
PIN5	RS485A2_B	EcoFlow Smart Meter
PIN6	RS485A2_A	

J19 Definition Used for		
PIN1	DO-42	Dry contact output
PIN2	DO-41	
PIN3	INT_12V	External 12 V input
PIN4	INT_GND	External 0 V input
PIN5	OUT_12V	12 V output
PIN6	OUT_GND	0 V output

J17 Definition Used for		
PIN1	CAN0H	PCS_CAN
PIN2	CAN0L	
PIN3	CAN1H	EMS_CAN
PIN4	CAN1L	
PIN5	CAN2H	Reserved
PIN6	CAN2L	

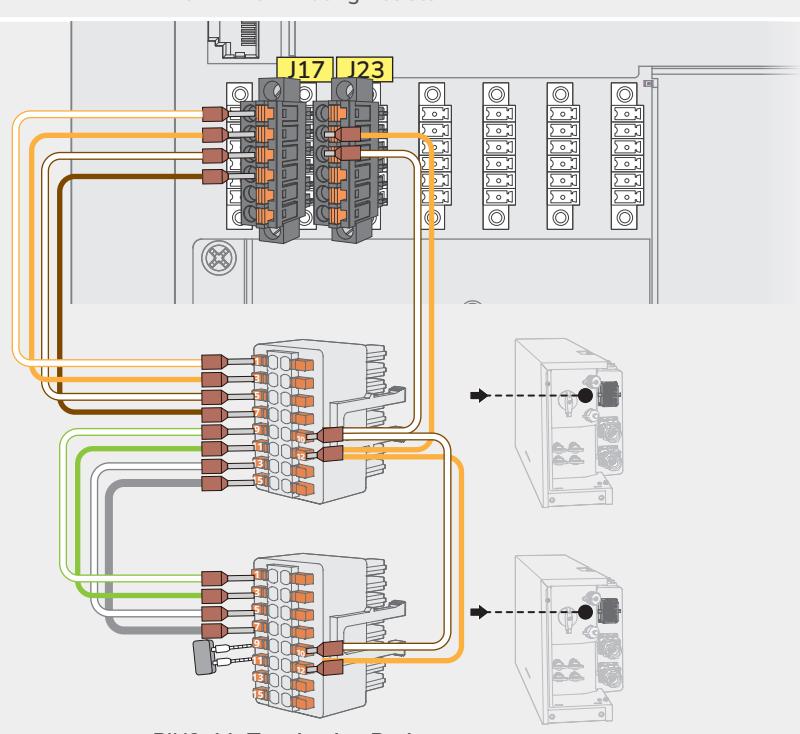
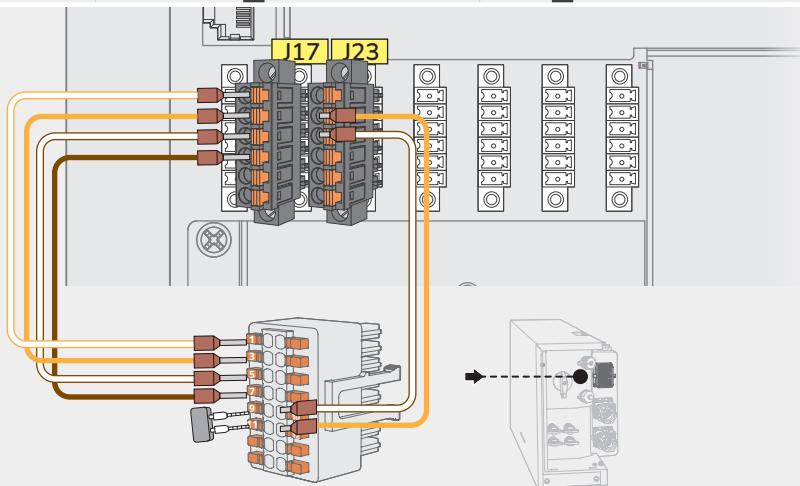
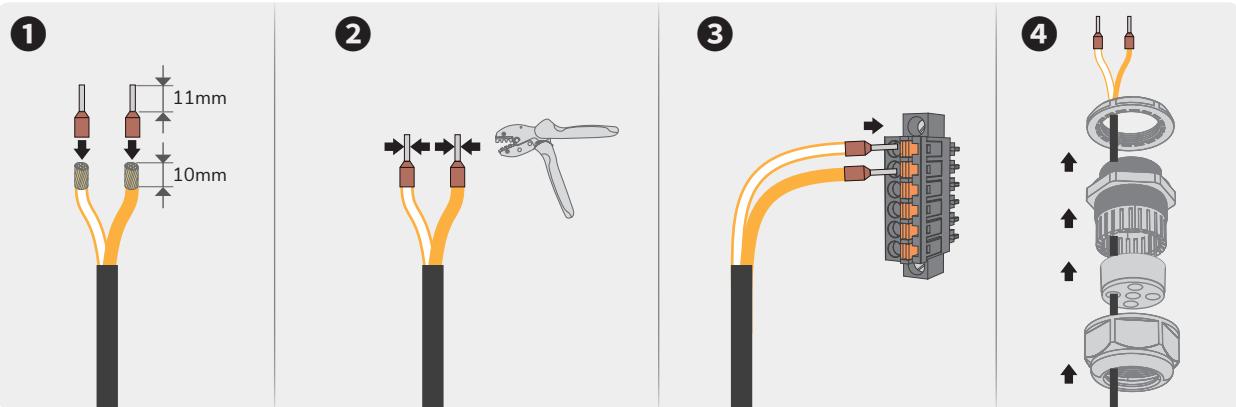
J21 Definition Used for		
PIN1	DI_IN5	
PIN2	DI_IN6	RCR input
PIN3	DI_IN7	
PIN4	GND	Signal grounding
PIN5	GND	Signal grounding
PIN6	GND	Signal grounding

J23 Definition Used for		
PIN1	Backup	On-grid/off-grid signal
PIN2	SYN	Frequency synchronization signal
PIN3	GND	Signal grounding
PIN4	Backup	On-grid/off-grid signal
PIN5	SYN	Frequency synchronization signal
PIN6	GND	Signal grounding

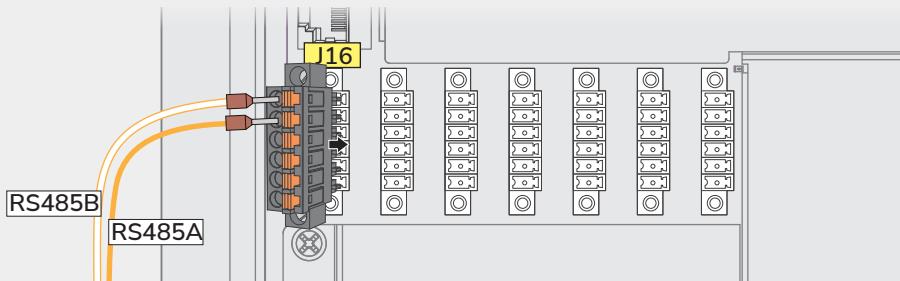
J20 Definition Used for		
PIN1	DI_IN0	
PIN2	DI_IN1	
PIN3	DI_IN2	RCR input
PIN4	DI_IN3	
PIN5	DI_IN4	
PIN6	GND	Signal grounding



- Insert a terminating resistor (included) for proper communication.



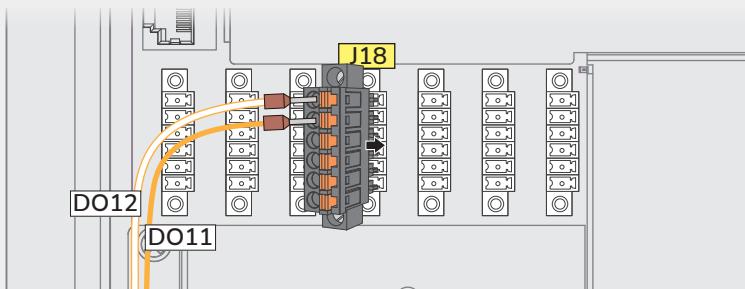
INSTALLING THE SIGNAL CABLE OF ECOFLOW EV CHARGER



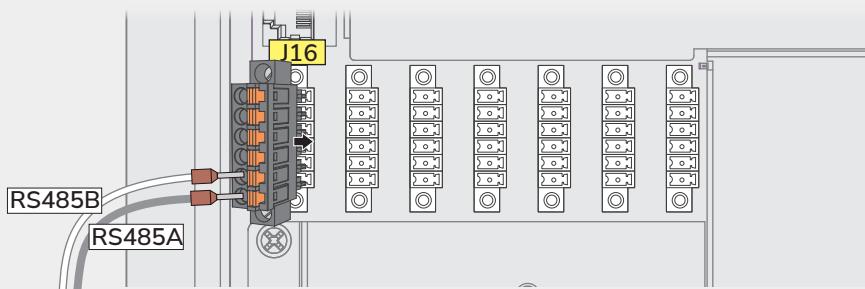
INSTALLING THE GENERATOR START SIGNAL CABLE



- The generator to be connected must have its N-PE link connected; otherwise, it may cause the RCD to trip.
- When starting with just a generator in an off-grid setup, the EcoFlow PowerOcean Single-Phase system cannot be woken up by the generator. Press and hold the BATTERY ON/OFF button on the inverter for 10 seconds to activate the battery first, then turn on the generator to allow it to take over.
- If the generator's operating frequency fluctuates excessively, the system will switch to off-grid supply for safety reasons.

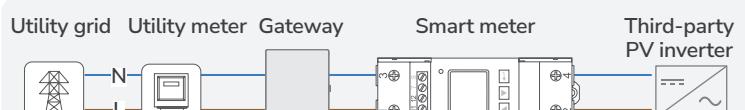
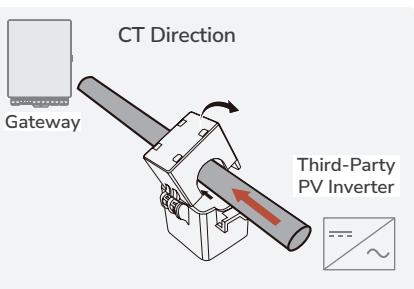


(OPTIONAL) ENERGY METERING INSTALLATION FOR SYSTEM WITH THIRD-PARTY PV INTEGRATION



METER with CT: ADL200N-CT (120A)

METER without CT: YDM201D (80A)



System Commissioning

en

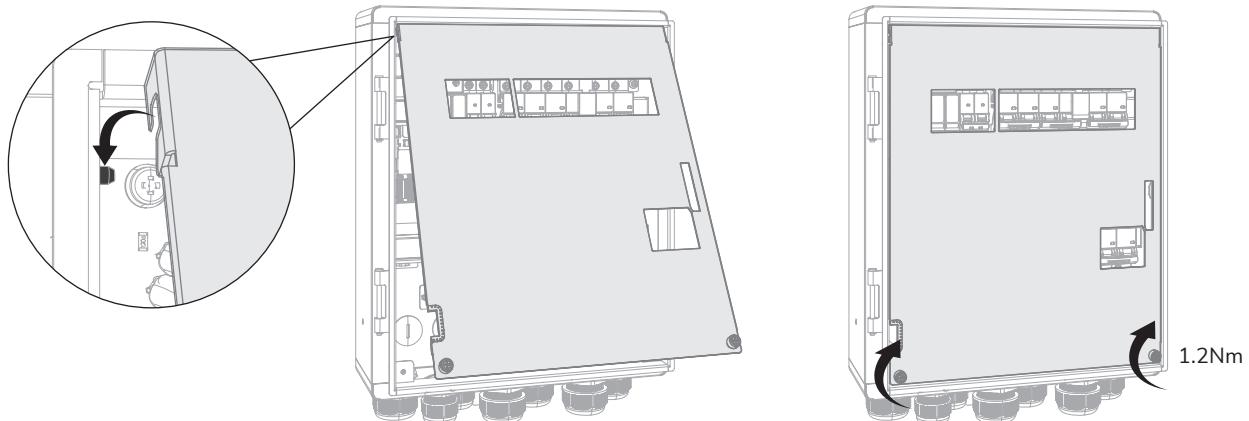
I Check Before Power-On

Check Item	Acceptance criteria
Equipments	Equipments are installed correctly and securely.
Grounding	The PE cable is connected correctly, securely, and reliably.
Switch	All the switches connecting to the system are in OFF position.
Cable connection	Please make sure there are no exposed cables in the entire system.
Unused terminals and ports	Unused terminals and ports are locked by waterproof glands.

I Closing the Maintenance Compartment



- Before closing the maintenance compartment, remove tools and unused screws from the maintenance compartment.
- Keep the delivered keys properly for future use.



I System Power-On

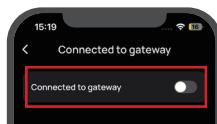


- Wear PPE and use dedicated insulated tools to avoid electric shocks or short circuits.
- Do not operate the bypass switch during site deployment or normal use.



- To ensure you can verify correct installation immediately after setup, install this product only when the utility grid is present and power on the device using grid supply to activate it.

1. Switch on QF1 (SPD).
2. Switch on QF2 (GRID).
3. Switch on QF4 (INVERTER).
4. Switch on QF5 (GENERATOR (if any)).
5. Wait for the inverter and battery to power on; observe the LED to check the inverter and battery operating status.
6. Upon system power-up, access the Pro App for EcoFlow PowerOcean (Single-Phase), navigate to the settings interface, and toggle "Connected to gateway" to enable the gateway functionality. This enabling switch is factory-set to the disabled state by default.



System Maintenance

I System Power-Off



- Only authorized personnel can open the maintenance compartment cover to perform maintenance operation.
- Before maintenance, power off the main circuit breaker, the inverter, and the DC switches of the inverter and battery.
- Before maintenance, power off backup load circuit breaker, grid AC circuit breaker, and 2 inverter AC circuit breakers.
- After the system powers off, the remaining electricity and heat may still cause electric shocks and body burns. Therefore, put on protective gloves and begin operating the equipment five minutes after the power-off.
- Wait at least 1 minute after a circuit breaker trips (goes OFF) before trying to reset it (switch it ON) to allow the device and circuit to cool down, stabilize, and prevent damage from repeated tripping, which indicates overload or fault. Repeatedly flipping it quickly can cause damage to the device.

1. Power off the inverter and battery.
2. Switch off QF5 (GENERATOR (if any)).
3. Switch off QF4 (INVERTER).
4. Switch off QF2 (GRID).
5. Use a multimeter to check that no AC voltage in the gateway is present.

I Routine Maintenance

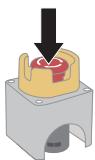
Daily Inspection Items	Appearance Inspection	<ul style="list-style-type: none">Cabinet body without deformation/rust/damage, paint intactCabinet door closed tightly, locks and identification in good conditionGrounding terminal connected firmly, grounding wire without breakage
	Operation Status Monitoring	<ul style="list-style-type: none">Voltage within $\pm 5\%$ of rated valueCurrent not exceeding circuit breaker rated valueNo abnormal noise, peculiar smell or overheatingIndicator lights functioning normally (power/operation lights, etc.)
	Key Component Inspection	<ul style="list-style-type: none">Circuit breaker: Contacts without ablation, flexible operationContactor: Coil without overheating, contacts without arc marks
Regular Maintenance Content	Weekly Maintenance	<ul style="list-style-type: none">Clean surface of the gateway and debris within 1m radiusCheck ventilation openings for blockages, ensure normal heat dissipationTest residual current device (press test button)
	Monthly Maintenance	<ul style="list-style-type: none">Clean dust inside and outside gateway with brushInspect cable joints for overheating discolorationTighten connection terminals, clean oxide layer and apply conductive paste
	Quarterly Maintenance	<ul style="list-style-type: none">Inspect capacitor cabinet: capacitors without expansion/leakage, good groundingMeasure grounding resistance (should be $\le 4\Omega$)Check busbar and lead connection firmness
Special Maintenance Requirements	Safety Device Calibration	Residual current device: Test operation reliability monthly

I Bypass Switch Operating Instructions

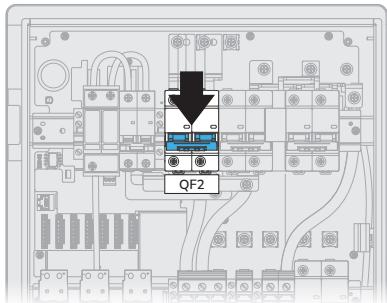


- Wear PPE and use dedicated insulated tools to avoid electric shocks or short circuits.
- Do not operate the bypass switch during site deployment or normal use.
- Do not switch on the bypass switch when the power is on. Otherwise, the high voltage may result in electric shocks and damage to the gateway.
- DO NOT** switch on the bypass switch (QF3) when the generator (if any) is operating, as it may cause equipment damage or electric shock.
- The bypass switch can only bypass the grid, not the generator (if any).**

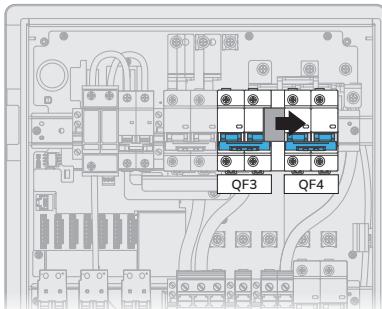
1 Power off the inverter and battery, and ensure the EPO button (if any) is pressed.



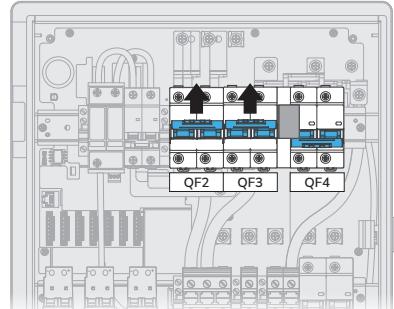
2 Switch off QF2.



3 Switch off QF4, then slide the interlock to the right (QF4 side).



4 Switch on QF2 and QF3.



Technical Parameters

General Data	
Model	EF-SG-001
Compatible Inverter	EF HD-P1-3K-S1, EF HD-P1-3.68K-S1, EF HD-P1-4.6K-S1, EF HD-P1-5K-S1, EF HD-P1-6K-S1
Dimensions	465 x 380 x 160 mm
Weight	15 kg
Noise emission	≤30 dB
Installation	Wall Mount
Bypass operation mode	Manual
Communication	Ethernet / RS485 / CAN / DI/DO
DC output	12V _{DC} /8W
Pollution degree	3
Types of earthing system	TN-S/TN-C-S / TT
EMC classification	Class B
External design	Box-type assembly
IK code	IK07
Type of construction	Fixed parts
Type of short-circuit protective device	Circuit breaker
Measures for protection against electric shock	Through the aluminum enclosure
Distribution boards (DBO)	Type A
Grid Connection	
Grid connection type	L/N+PE
Nominal AC voltage	220/230/240 V
Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Nominal AC frequency	50/60 Hz
Backup switchover time	0 ms *1
AC Output to Backup Port	
Nominal AC voltage	220/230/240 V

Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Nominal AC frequency	50/60 Hz
Overvoltage category	3
Generator Port	
Nominal AC voltage	220/230/240 V
Nominal AC current	100 A
Nominal AC power	22/23/24 kW
Generator 2-Wire Auto-Start	Supported
Protection	
Low Voltage Ride Through	Supported
Anti-Islanding	Supported
AC Surge Protection *4	Type II
Environment	
Cooling	Natural Convection *2
Relative Humidity Range	0%~95% RH
Ingress Protection Rating	IP54
Max. Operating Altitude	3000 m (derating over 2000 m)
Operating Temperature	-30°C to 55°C *3
Storage Temperature	-30°C to 60°C
Environmental Category	Indoor/Outdoor

*1 This parameter denotes the load-side transfer interruption duration. To implement this functionality, the gateway must be used in conjunction with the EcoFlow PowerOcean (Single-Phase) system.

Test Conditions: When the utility grid is in an open-circuit state, the rated power of the EcoFlow PowerOcean (Single-Phase) system shall exceed the total power consumption of the backup loads.

*2 With internal fan.

*3 The operating temperature ranges from -30°C to +40°C, and the long-term steady-state current is not derated. When the temperature ranges from 40°C to 55°C, the current is linearly derated from 100 A to 62.5 A.

*4 Should be replaced by a professional.

REGULATORY COMPLIANCE



English: Hereby, EcoFlow Inc. declares that this product is in compliance with Directives 2014/53/EU, 2011/65/EU(RoHS), (EU)2015/863(RoHS). The full text of the EU Declaration of Conformity is available at the following Internet addresses .eu: <http://www.ecoflow.com/eu/eu-compliance>



English: This marking indicates that this product should not be disposed of with other household waste within the EU. Recycle this product properly to prevent possible damage to the environment or a risk to human health via uncontrolled waste disposal and in order to promote the sustainable reuse of material resources. Please return your used product to an appropriate collection point or contact the retailer where you purchased this product. Your retailer will accept used products and return them to an environmentally



© 2026 EcoFlow Inc. All rights reserved.