

EcoFlow DELTA Pro Ultra User Manual





Disclaimer

Please read this User Manual and ensure you understand it fully before using the product. Please keep this User Manual properly for future reference. In this manual and other related documents, EcoFlow DELTA Pro Ultra Inverter is referred to as the inverter, and EcoFlow DELTA Pro Ultra Battery is referred to as the battery. Failure to properly operate this product could cause serious injury to yourself or others, or cause damage to this product and other property. By using this product, you are deemed to have understood, acknowledged, and accepted all terms and contents of this document. Individual users are responsible for their actions and the consequences of those actions. EcoFlow hereby disclaims any liability for any losses due to the user's failure to use the product in accordance with the User Manual.

In compliance with laws and regulations, EcoFlow reserves the right to final interpretation of this document and all documents related to the product. This document is subject to changes (updates, revisions, or termination) without prior notice. Please visit EcoFlow's official website to obtain the latest product information.

Symbol Conventions

These are safety warning symbols. Such safety information alerts you to hazards that can be lethal to you and others, and that can cause damage to the equipment. All safety information is preceded by safety warning symbols and hazard words, including: "DANGER", "WARNING", "CAUTION", and "NOTICE". The "DANGER", "WARNING", "CAUTION", and "NOTICE" statements in this manual do not cover all the safety instructions. They are only supplements to safety instructions.

Symbol	Description
	Very high risk. If not avoided, it could lead to severe injury or even death.
	Moderate risk. If not avoided, it could lead to severe injury or even death.
	Lower risk. If not avoided, it may result in minor or moderate injury.
	Potentially hazardous. If not avoided, it could result in equipment damage, data loss, performance deterioration, or

Safety Instructions

WARNING

SAVE THESE INSTRUCTIONS – This manual contains important instructions for model EFYJ751-PCS-US and EFYJ751-BP that shall be followed during installation and maintenance.

1. Before installing, using and maintaining the product, please read carefully the safety instructions in this manual. EcoFlow is not responsible for any problems caused by improper handling of the product in installation and maintenance procedures.
2. Do not use parts or accessories that are not officially supplied. Use of third-party accessories may result in risks such as fire and electric shock. If parts or accessories are necessary, please visit EcoFlow's official sales channel for purchase information. EcoFlow is not responsible for product problems caused by the use of cables and other accessories produced by third-party manufacturers.
3. Keep this product out of the reach of children and pets and close attention is required to prevent potential hazards when children or pets are close to the device.
4. Strictly comply with the ambient temperature in this User Manual when using this product. If the temperature is too high, the battery may catch fire or explode. If the temperature is too low, the product may not work normally.
5. Do not disassemble, modify or replace this device (including internal and external parts), if necessary, please contact qualified professionals or contact EcoFlow after-sales service for handling.
6. Do not place other heavy objects (except the inverter and batteries) on the device during use or storage.
7. Avoid impacts, falling, dropping or strong vibrations. In the case of severe external impact, please turn off the power immediately and stop using the product. Ensure the product is well fastened during transportation to avoid vibrations and impacts.
8. If the product falls into water accidentally during use, place it in a safe open area and stay away from it until it is completely dry. The dried product should not be reused and should be disposed of properly as described in the "Disposal" section below. If the product catches fire, please use a fire extinguisher or fire-fighting equipment in the following recommended order: water or mist, sand, fire blanket, dry powder, and carbon dioxide fire extinguisher.

9. Handle this product with care to prevent it from being damaged due to overturning. If the product is badly damaged after overturning, please turn off the power immediately, place the battery in an open area away from combustible materials or people, and properly dispose of it according to the requirements of local laws and regulations.
10. Electromagnetic fields created by this product may affect the normal functioning of medical implants or personal medical devices, such as pacemakers, cochlear implants, hearing aids, defibrillators and so on. If you are using these medical devices, please consult the manufacturers about the restrictions on the use of relevant devices to ensure that a safe distance is maintained between this product and the implanted medical devices (such as pacemakers, cochlear implants, hearing aids, defibrillators and so on) during operation.
11. When the power supply is connected in normal mode to a refrigerator, power fluctuations of the refrigerator may cause the device to automatically shut down. Therefore, when the device is connected to a refrigerator that stores medicine, vaccines or other valuable items, it is recommended to set the AC output to "Always On" in the app in order to guarantee continuous power supply, and please pay attention to the power consumption of the device.
12. After the installation is completed, clean up the items in time, such as cartons, foam, plastic, cable ties, etc.

Environmental Requirements

1. Ensure that the device is installed in a ventilated environment, and do not block the vents when the device is in operation. Inadequate ventilation may damage the device.
2. Do not use this product near heat sources or high temperatures (e.g. fire sources or hot stoves). To prolong the battery life, it is recommended to use or store this product at 20°C to 30°C.
3. When installing or using the product in an environment near fumes, smoke, heat, steam or dust, it is necessary to use a protective cover to prevent the risk of fire.
4. The installation environment should be hard flat ground. Due to the large mass of the device, it is necessary to ensure that the installation environment of the device is stable and that the equipment does not tilt to avoid personal injury or product damage.
5. Keep the product away from humid environments, do not immerse it in water or get it wet. If the product is installed or placed near the sea or any waterways, we recommend using moisture barrier bags to prevent the product from getting soaked, otherwise, it may cause a risk of fire. If water is found inside the product, please turn off the product and stop using it again. Take anti-electric shock measures before touching the product, and put it immediately in a safe, waterproof and open area. Contact qualified personnel or EcoFlow after-sales service if necessary.

Safety Requirements

1. Do not stand, lean or sit on the device.
2. If the product will not be used for a long period of time, make sure that it is unplugged from the outlet and turned off.
3. Do not connect this device with damaged cables. Use of damaged cables may affect the normal operation of the device or lead to potential risks.
4. Do not put your hands or foreign objects into the device ports or vents.

Disposal Requirements

EcoFlow DELTA Pro Ultra Inverter

If the inverter can not work anymore, dispose of it according to the local disposal requirements for electrical equipment waste. The inverter cannot be disposed of together with household waste.

1. Before removing the inverter, power it off. For details, check Power On/Off in "user manual".
2. Sequentially disconnect the fast charging input cable, PV input cables, battery cables, and all the other modules connecting to the inverter.
2. Remove the inverter and the battery from the portable stand.
4. Pack and store the inverter properly.

EcoFlow DELTA Pro Ultra Battery

1. If conditions permit, make sure that the battery is fully discharged before disposing it in a designated battery recycling bin. The product contains batteries with potentially dangerous chemicals, so it is strictly prohibited to dispose of it in ordinary trash cans. For more details, please follow the local laws and regulations on battery recycling and disposal.
2. If the battery cannot be fully discharged due to a product failure, please do not dispose of the battery directly in the battery recycling box. In such case, you should contact a professional battery recycling company for further processing.
3. Please dispose of over-discharged batteries that can not be recharged.

Specifications

EcoFlow DELTA Pro Ultra Inverter

General Information	
Model	EFYJ751-PCS-US
Weight	Approx. 31.7 kg
Dimensions	Approx. 690 × 481 × 214 mm (27.2 × 18.9 × 8.4 in.)

Wi-Fi	Frequency range: 2,412-2,462 MHz/2,422-2,452 MHz Maximum output power: 0.3597 W
Bluetooth	Frequency range: 2,402-2,480 MHz Maximum output power: 0.0109 W
Output Information	
AC Output (Discharging)	Pure sine, 7,200 W total, 120/240 V~ 60 Hz
AC Output (Bypass)	100-120 V~30 A max, 50/60 Hz
USB-A (×2)	5 V⊠2.4 A, 12 W max per port, total 24 W
USB-C (×2)	5/9/12/15/20 V⊠5 A, 100 W max per port, total 200 W
DC Output (×1)	12.6 V⊠30 A, 378 W max
Input Specifications	
AC Input (Charging)	100-120 V~15 A; 200-240 V~12.5 A, 50/60 Hz
AC Input (Bypass)	100-120 V~ 15 A, 50/60 Hz (duration < 3hrs when the current exceeds 12A)
Power Input/Output Port	100-120 V~30 A, 200-240V~30 A, 50/60 Hz
High Voltage PV Input	80-450 V⊠15 A max, 4,000 W max
Low Voltage PV Input	30-150 V⊠15 A max, 1,600 W max
Ambient Temperature	
Discharging Temperature	−20°C-45°C (−4°F-113°F)
Charging Temperature	−20°C-45°C (−4°F-113°F)
Storage Temperature	−20°C-45°C (−4°F-113°F) (optimum at 20°C-30°C/68°F-86°F)
Other Information	
Altitude	≤3,000 m (≈9,842 ft)
IP Rating	IP54
Noise Level	<30 dB
UPS	Backup UPS <20 ms, online UPS 0 ms
Communication Method	CAN & Wi-Fi & WAN & 4G

NOTICE

1. Press and hold the AC output switch for 10 seconds to switch the AC output frequency.
2. The IP rating is IP54 when the product is not in use.
3. For most scenarios, noise level of the product is less than 30 dB.
4. When the ambient temperature exceeds 40°C (104°F), the charging and discharging power are recommended to be equal to or less than 5,000W when charging and discharging the product at the same time.

EcoFlow DELTA Pro Ultra Battery

General Information	
Model	EFYJ751-BP
Name	Rechargeable Li-ion battery pack
Weight	Approx. 50.7 kg (111.8 lbs)
Dimensions	Approx. 660 × 455 × 204 mm (26 × 18 × 8 in.)
Capacity	102.4 V \times 60 Ah, 6,144Wh
Battery Specifications	
Cell Material	LFP
Cycle Life	The battery maintains 80%+ SOH (state of health) after 3,500 cycles at 0.5C/0.5C at 25°C (77°F)
Protection Type	Overvoltage protection, overload protection, overtemperature protection, short circuit protection, low-temperature protection, low voltage protection, overcurrent protection
Ambient Temperature	
Discharging Temperature	-20°C-45°C
Charging Temperature	-20°C-45°C
Storage Temperature	-20°C to 45°C (-4°F to 113°F)(optimal 20°C to 30°C (68°F to 86°F))
Other Information	
Altitude	≤3,000 m (≈9,842 ft.)
IP rating	IP54

NOTICE





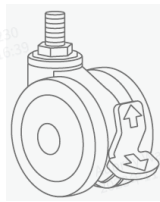
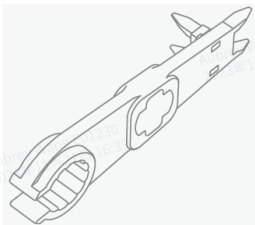
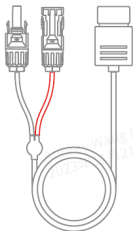
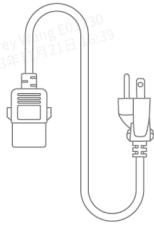
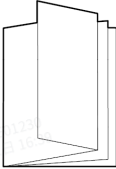
1. Whether the product can be charged or discharged depends on the actual temperature of the battery.
2. The battery will automatically start self-heating if the temperature is lower than 0 °C (32 °F). To disable this, please set it in the app.

What's in the Box

NOTICE

1. After unpacking, ensure that all components are intact. Contact EcoFlow customer service if there is any missing or damaged component.
2. For components not included in the box, please purchase them on the official website.


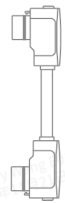
EcoFlow DELTA Pro Ultra

EcoFlow DELTA Pro Ultra Inverter (×1)	EcoFlow Portable Stand (×1)	EcoFlow Supporting Leg (×4)	M6*20 (×4)	EcoFlow Side Mount Caster (×4)
				
EcoFlow Disassembly and Assembly Tool (×1)	EcoFlow Solar to Low-PV Port Charging Cable (×1)	EcoFlow AC Charging Cable (×1)	User Manual & Warranty Card	
				

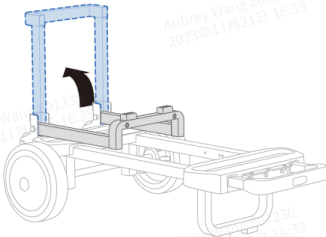
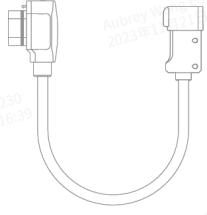
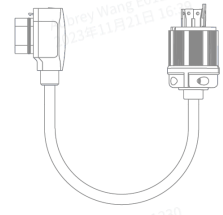
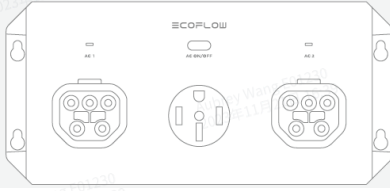
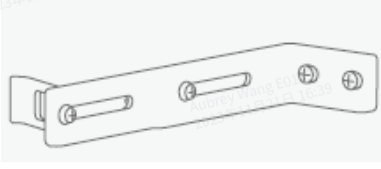
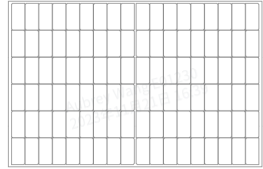
EcoFlow DELTA Pro Ultra Battery (not included in the inverter package)

NOTICE

The EcoFlow DELTA Pro Ultra Inverter must be used together with EcoFlow DELTA Pro Ultra Battery as a whole set.

<p>EcoFlow DELTA Pro Ultra Battery</p> 	<p>EcoFlow Battery Connection Cable</p> 
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Optional Components (not in the box)


<p>EcoFlow Trolley</p> 	<p>EcoFlow EV X-Stream Adapter</p> 	<p>EcoFlow AC Generator Charging Adapter</p> 
<p>EcoFlow 50 Amp Hub</p> 	<p>EcoFlow Fixing Metal Tab</p> 	<p>EcoFlow Solar Panels</p> 

Product Introduction

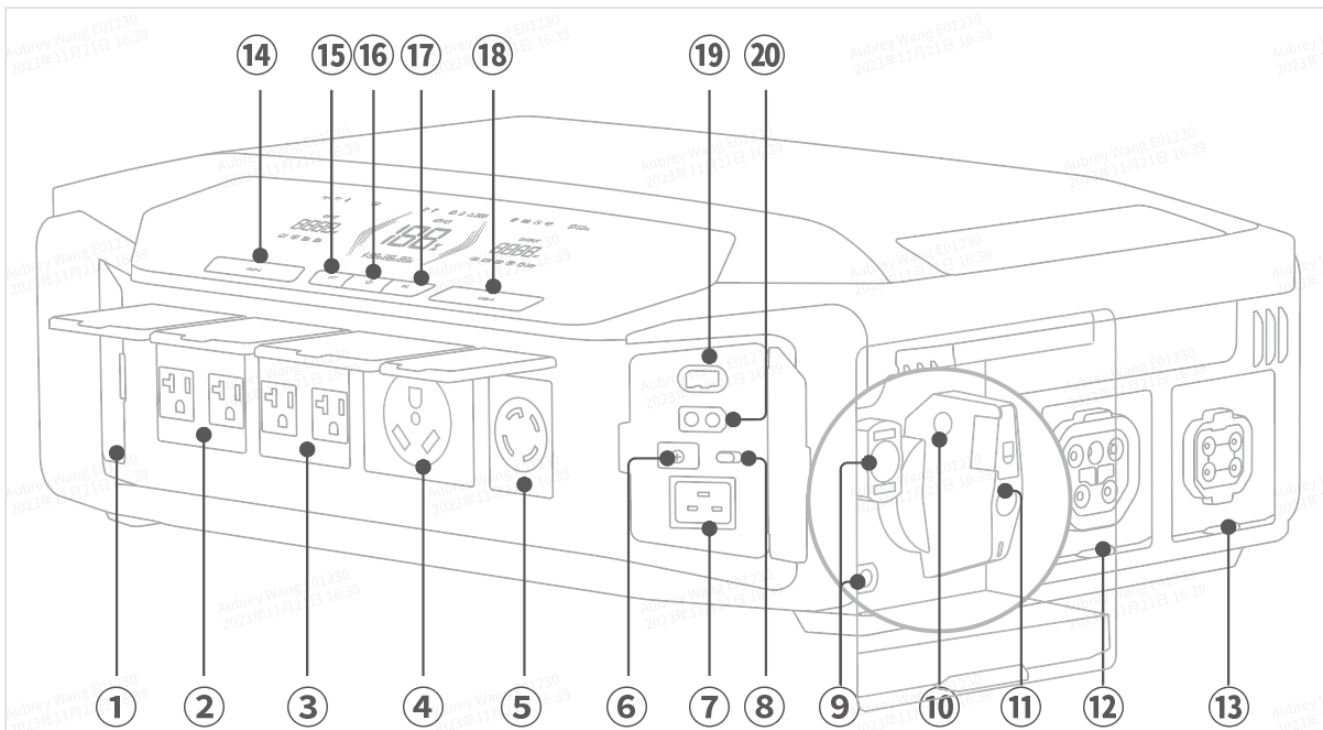
<p>NOTICE</p>	<ol style="list-style-type: none"> 1. The illustrations provided in this document are for demonstration purposes only. Product details may appear slightly different depending on the product version and market region. 2. Specifications and descriptions in this document may change without notification. EcoFlow reserves the right to modify the document due to product update. To check or download the latest documents, please visit the official website for reference.
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Product Overview

EcoFlow DELTA Pro Ultra Inverter

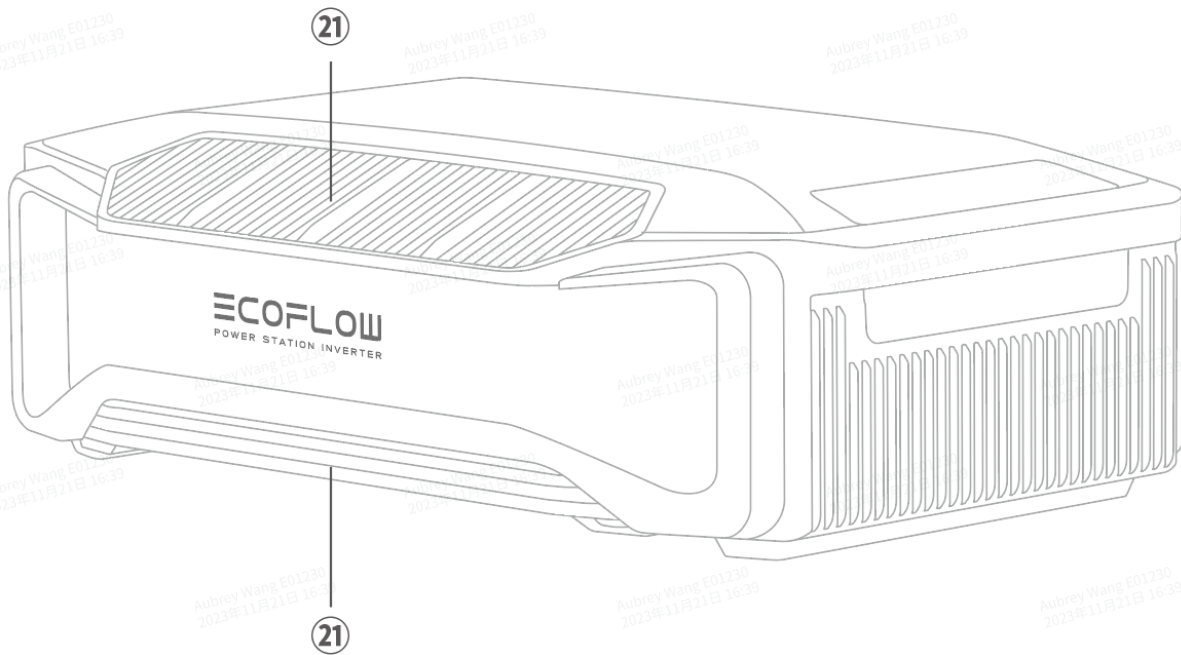
	
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Please ensure that the product is installed in a well-ventilated place and do not block the ventilation fans during operation. Insufficient ventilation may damage the equipment.



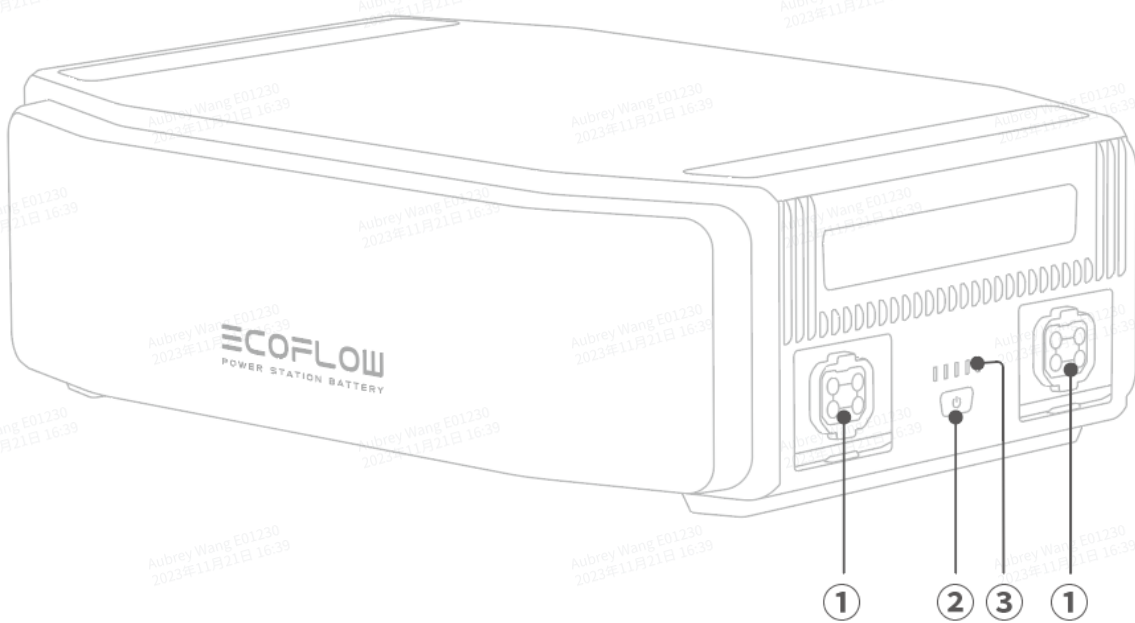
1. 4G dongle port
2. AC output socket (120V 20A max. per port) - Backup UPS
3. AC output socket (120V 20A max. per port) - Online UPS
4. AC output socket (120V 30A max.) - Online UPS
5. AC output socket (120V/240V 30A max.) - Backup UPS
6. Ground screw
7. AC charging input port
8. AC charging speed switch
9. High-PV input port
10. Lock hole

11. PV switch
12. Power input/output port
13. Battery port
14. USB-C 100W output port
15. AC power button
16. Main Power button
17. DC power port
18. USB-A output port
19. DC output button
20. Low-PV input port



21. Vent

EcoFlow DELTA Pro Ultra Battery



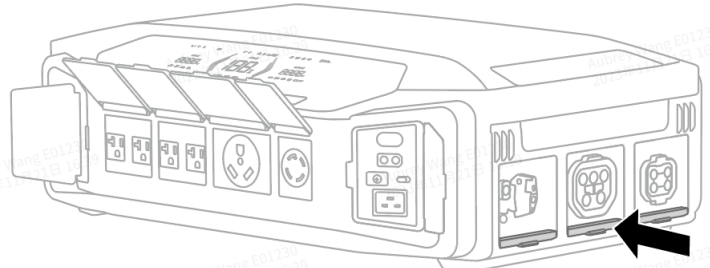
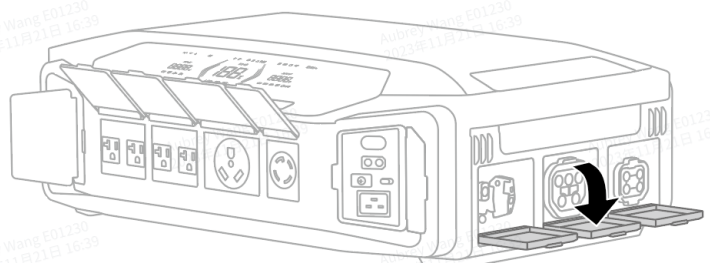
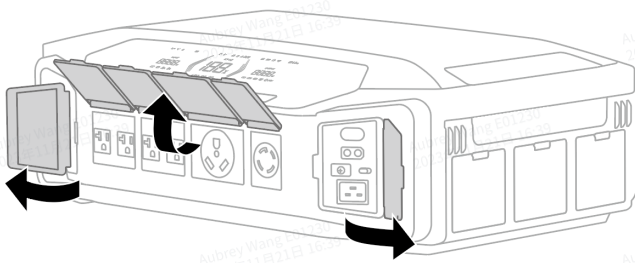
1. Battery port
2. Main power button
3. LED indicator

How to open covers

EcoFlow DELTA Pro Ultra Inverter

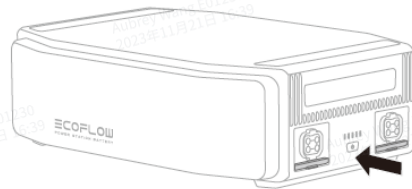
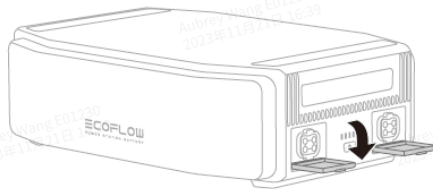
Open the front covers

Open the side covers (remember to insert them into grooves)





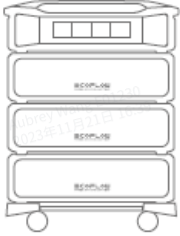


EcoFlow DELTA Pro Ultra Battery

Open the side covers (remember to insert them into grooves)



Battery Capacity Description

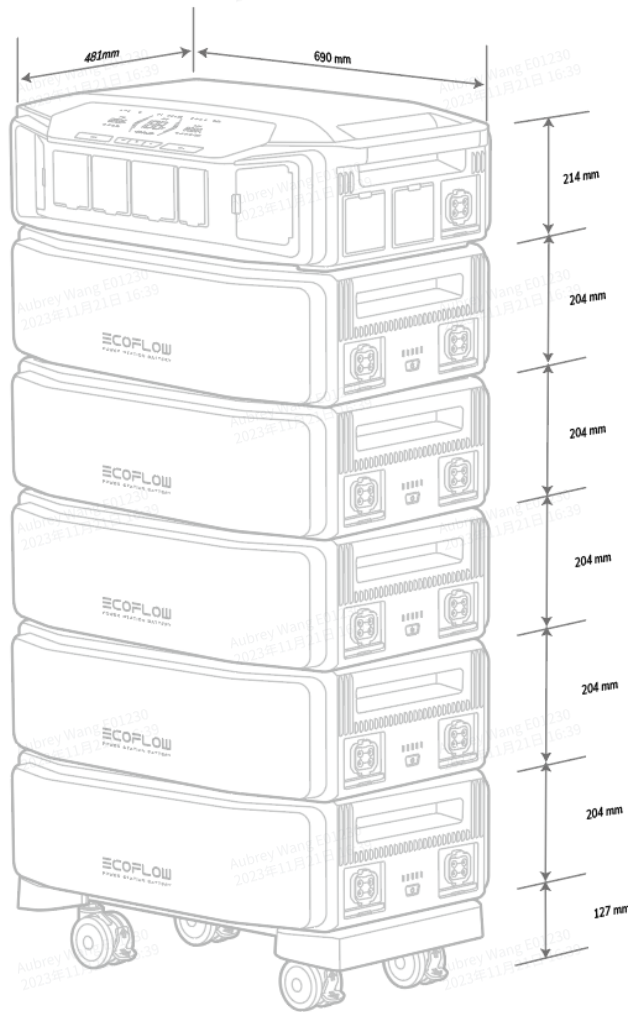
The rated capacity of the battery is 6,144Wh. To expand capacity, the inverter can connect to up to 5 batteries. EcoFlow Fixing Metal Tabs need to be installed when connecting one inverter to more than three batteries.

				
6.1kWh	12.2kWh	18.4kWh	24.6kWh	30.7kWh

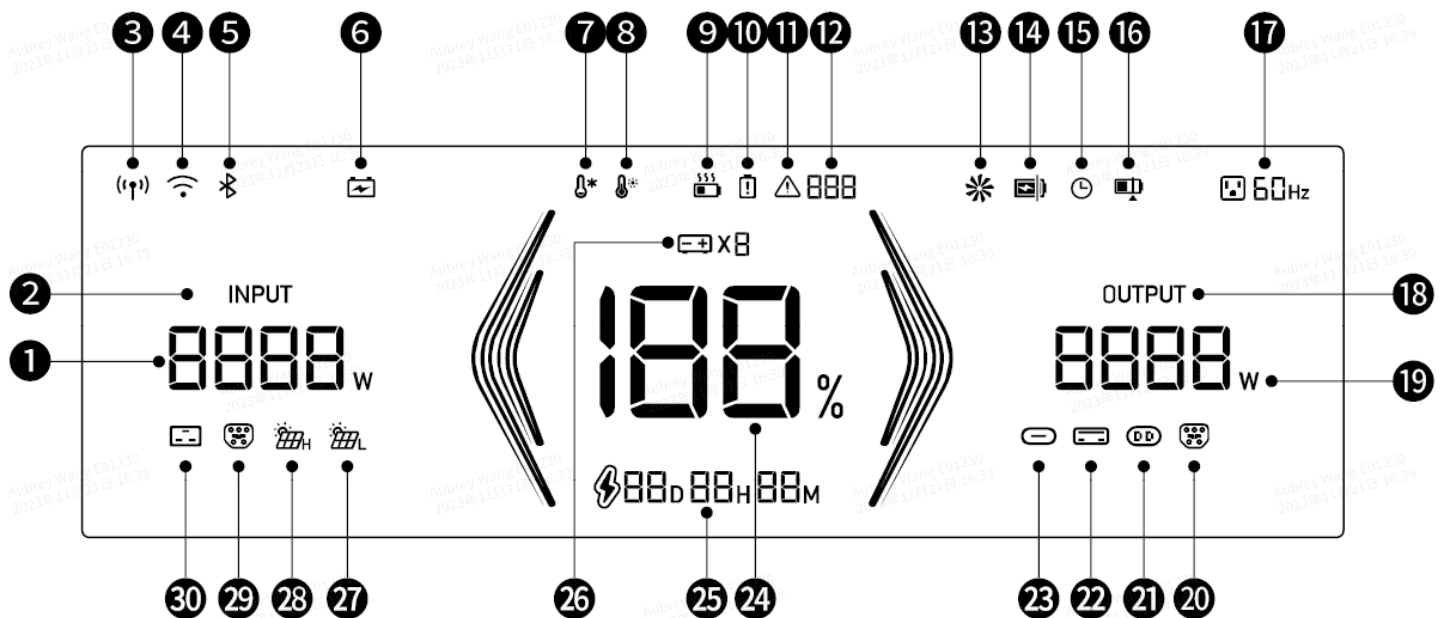
Product Dimension

NOTICE

Data in the following illustration is for reference purpose, please refer to the actual product.



LCD Screen























1. Total input power

11. Error report

21. DC output

2. Input indicator	12. Error code	22. USB-A output
3. 4G connection	13. Ventilation fan	23. USB-C output
4. Wi-Fi connection	14. Charging limit	24. Remaining battery percentage
5. Bluetooth connection	15. Timer	25. Remaining charging/discharging time
6. Backup mode	16. Charging/discharging level	26. Number of batteries
7. Low-temp warning	17. AC output	27. Low-PV input
8. High-temp warning	18. Output indicator	28. High-PV input
9. Self-consumption mode	19. Total output power	29. Power input
10. Battery failure warning	20. Power output	30. AC charging input

Number	Icon	Status	
1+2		Solid	Both 1 and 2 are shown on the LCD screen after the product is turned on
3		Solid	4G connected normally
		Off	4G disconnected
		Blinking	4G disconnected from the server
4		Solid	WiFi connected normally
		Off	WiFi disconnected
		Blinking	WiFi disconnected from the server
5		Solid	Bluetooth connected normally
		Off	Bluetooth disconnected
		Blinking	Blinks for 10 seconds when the product is unbound
6		Solid	Energy management enabled
		Off	Energy management disabled
7		Blinking	Low-temp error
8		Blinking	High-temp error
9		Solid	Battery in the process of heating

		Off	Battery not heated
10		Blinking	Battery failure
11+12		Solid	When there is an error, 12 shows up solid; you can check the error code checklist for details or ask after-sales service
		Blinking	When there is an error, 11 shows up blinking
13		Blinking	Ventilation fan failure
14		Solid	Slow charging (max. power not set in the app) or charging limit
		Off	Charging with full power
15		Solid	There are scheduled tasks
		Off	No scheduled task
16		Solid	Shows up when charging or discharging levels are set in the app
		Blinking	Battery level has reached the charging or discharging level
17		Solid	AC output and frequency
		Blinking	AC output error or inverter communication error
18+19		Solid	Both 1 and 2 are shown on the LCD screen after the product is turned on
24		Solid	Remaining battery percentage
25		Solid	Remaining charging time
		Solid	Remaining discharging time
26		Solid	Number of batteries currently connected


NOTICE

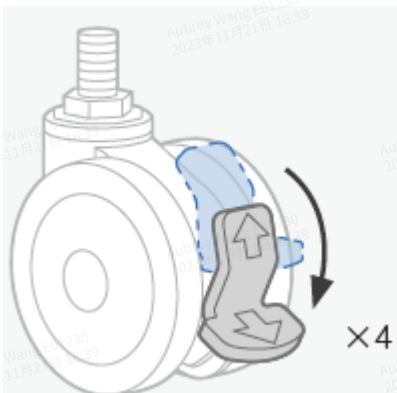
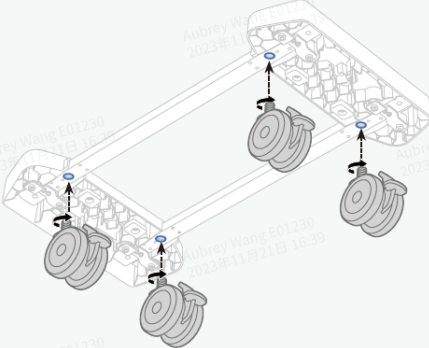
- DC output shows up on the LCD screen if DC power button is enabled after the product has been turned on.
- All the icons under "OUTPUT" will only show up when output ports of the product are connected; these icons start to blink when there is a product failure.

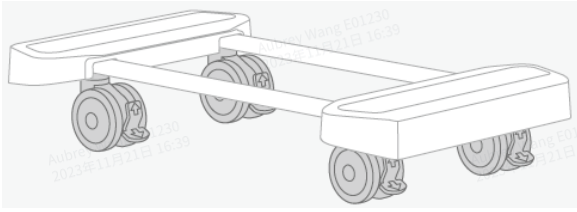
- All the icons under "INPUT" will only show up when input ports of the product are connected; these icons start to blink when there is a product failure.
- The rotating speed of the ventilation fan icon depends on the gear.
- For more details about error codes, please visit the EcoFlow official website or contact EcoFlow customer service.

Installation

EcoFlow Portable Stand Installation

<p>⚠ CAUTION</p>	<ol style="list-style-type: none"> The portable stand needs to be installed on a hard, flat surface instead of soft surfaces (for example, dirt or sand). Do not place the portable stand on a tilted surface as it may cause the product to topple over, potentially resulting in personal injury or product damage.
	

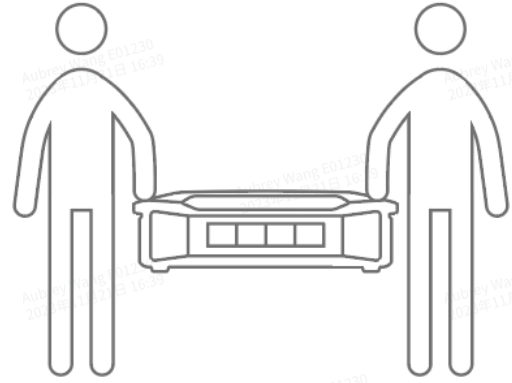
<p>1</p>		<p>Flick the brake down to lock the casters.</p>
<p>2</p>		<p>Mount the casters in the corresponding holes of the EcoFlow Portable Stand.</p>
<p>3</p>		<p>Put the well-installed portable stand on a flat surface.</p>



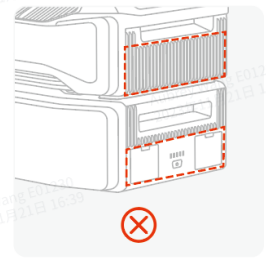
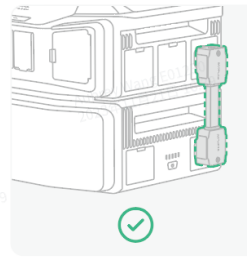
Product Installation

WARNING

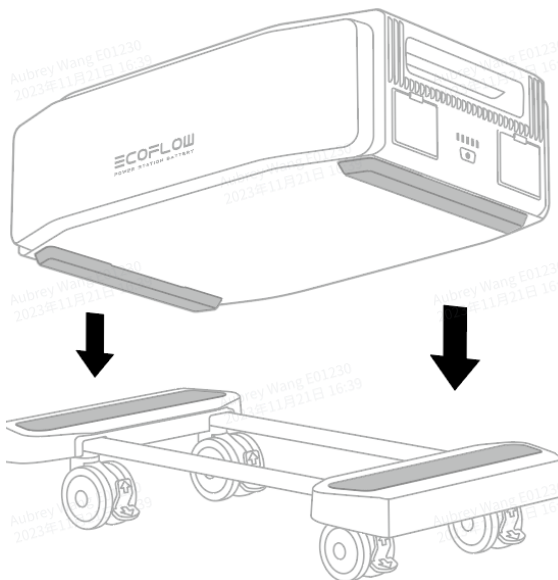
1. As the product is very heavy, we recommend that two people carry it to avoid potential personal injury.



2. Ensure that the battery ports of both inverter and battery are on the same side when you install them, otherwise, you can't connect them with the battery cable.



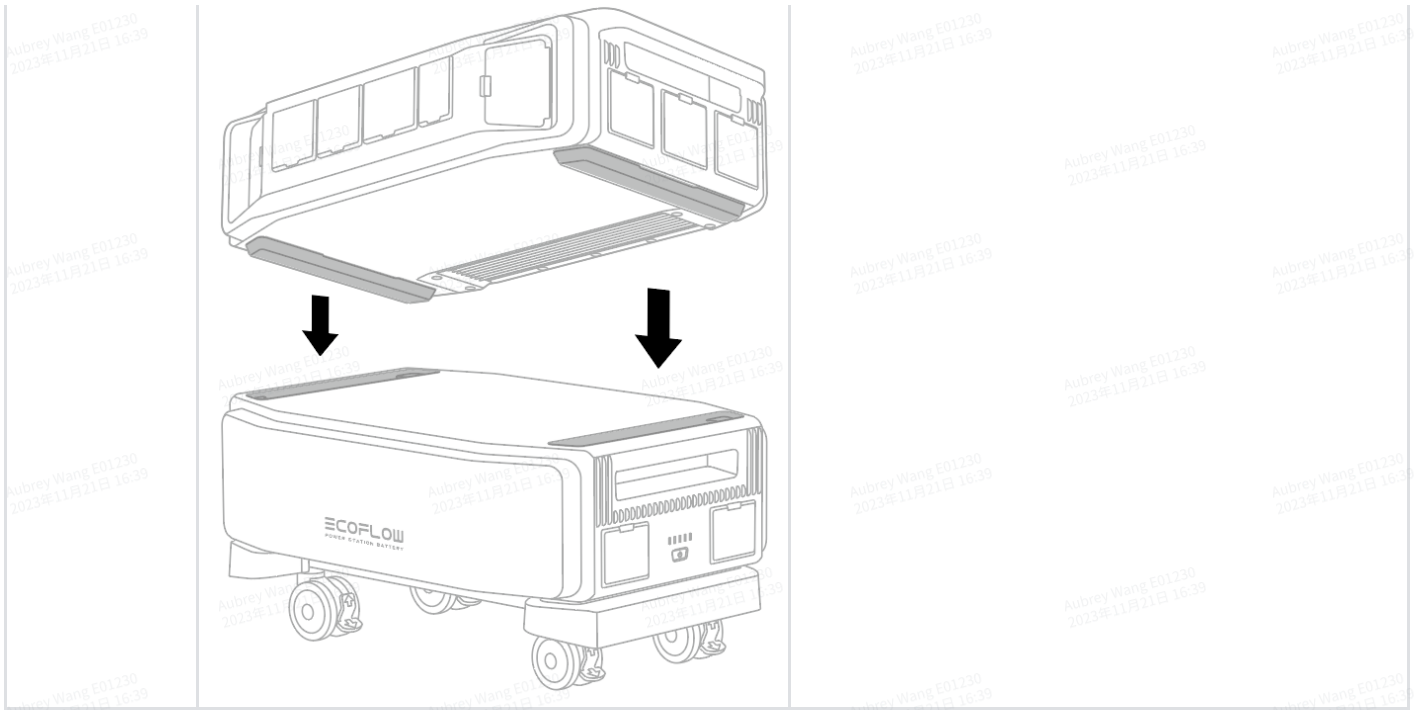
1



Align the battery with grooves of the portable stand.

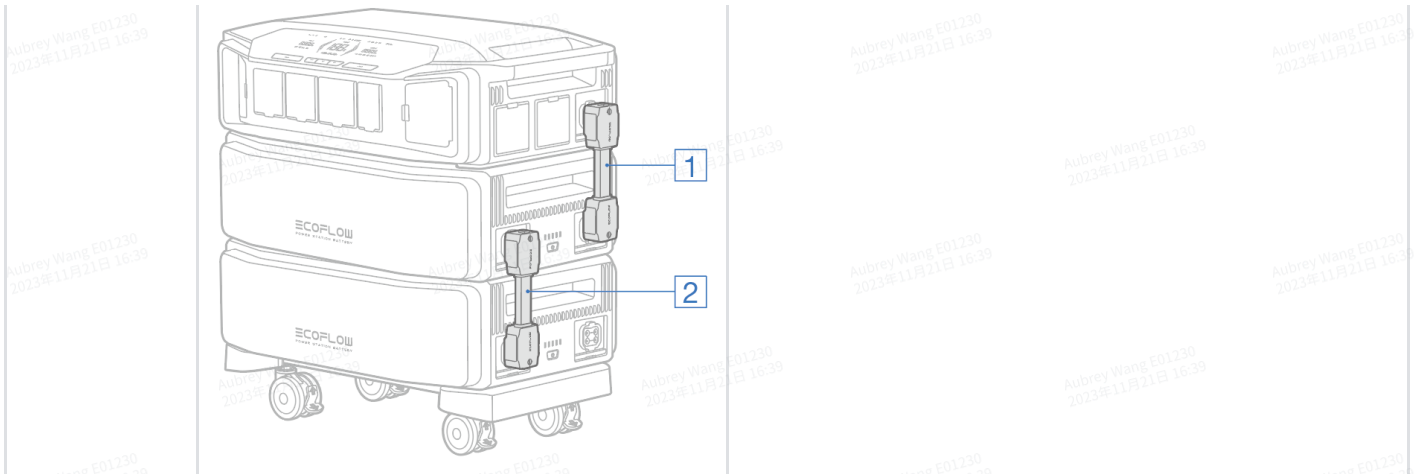
2

Repeat the action in step 1 to mount the inverter onto the battery.

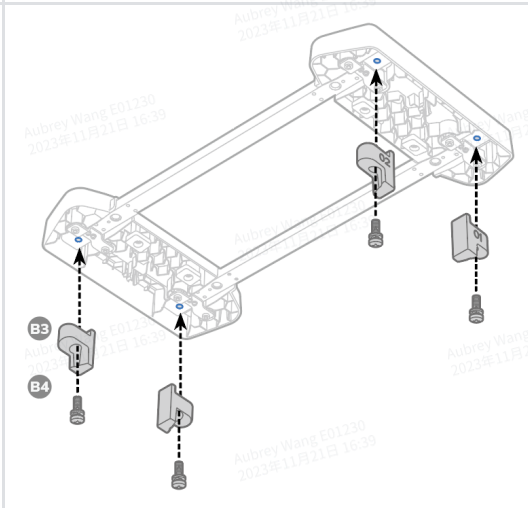


<p>⚠ CAUTION</p>	<p>1. To avoid accidental unplugging, we recommend that you lock the battery cable. After you mount the battery cable, you can lock the cable with a flathead screwdriver; when you need to remove the cable, remember to unlock it first.</p>	
	<p>2. One inverter supports up to 5 batteries.</p>	

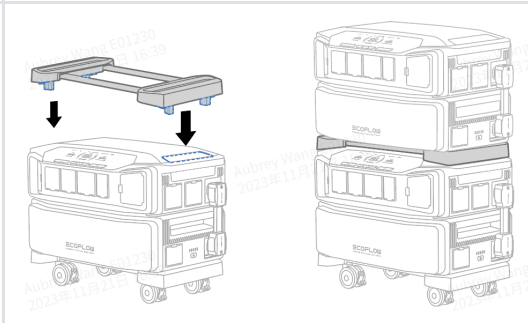
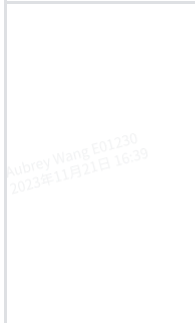
<p>3</p>		<p>Open the protective cover of the battery port, then connect the battery cable to the port. (For more installation options, you can also purchase the 1-meter long battery connection cable from EcoFlow official website.)</p>
<p>4</p>		<p>Be aware of the direction of battery cables when you mount more than 1 battery.</p>



5

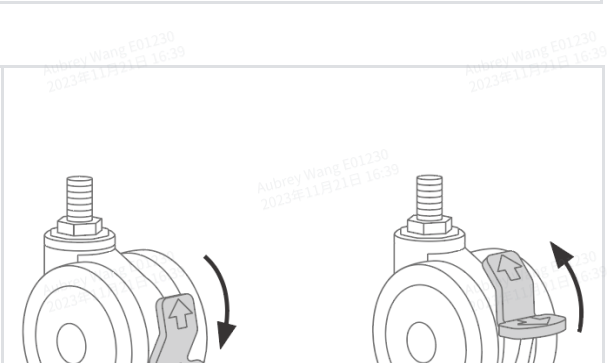


If you have 2 sets of products, you can put one set on top of the other set. Be noted that the top set should be installed with supporting legs instead of casters.

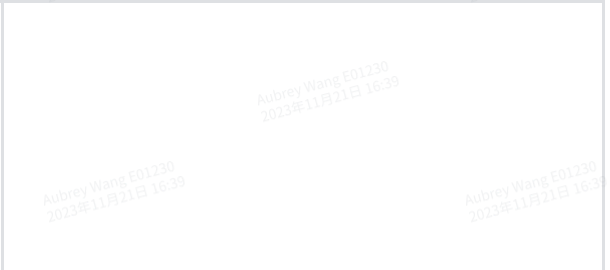


CAUTION

1. For long-time use, lock casters by flicking the brake down, so that the product can't be moved anymore. If you need to move the product, flick the brake up to unlock the casters.



2. Do not move the whole set of products if you connect the inverter to three or more batteries.

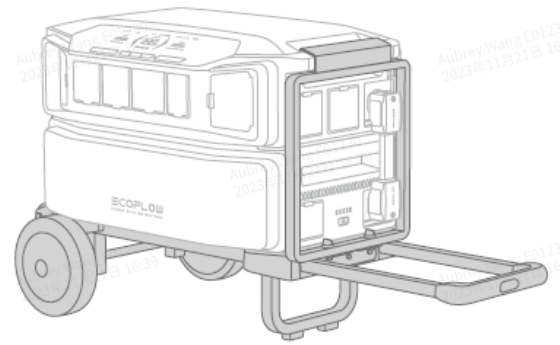


3. We suggest that you fix the whole set of products with fixing metal tabs if you connect 3 or more batteries to the inverter. The fixing metal tabs are installed on the battery directly under the inverter. For more details, please refer to the quick start guide of EcoFlow Fixing Metal Tab.
4. The recommended installation distance from the wall is 5cm for the purpose of heat dissipation.



NOTICE

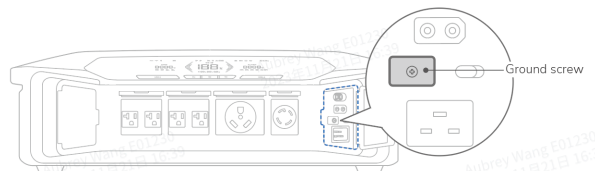
To easily move the product, you can also mount the set on the trolley, refer to the quick start guide of EcoFlow Trolley for details. (Note: you can only mount one inverter and one battery on the trolley.)



Grounding

NOTICE

When the product connected to PV modules is put inside the building, it needs to be grounded to reduce the risk of electric shock. Before using the ground terminal, consult a qualified electrician, electrical inspector, or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the product.



Power On/Off

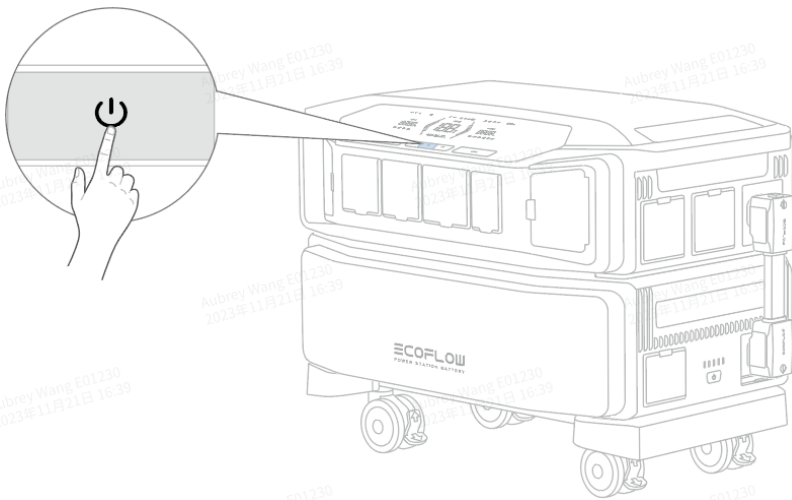
NOTICE

- If the product is turned off, it will automatically turn on when you connect the product to a wall outlet.

- When the product is turned on, the LCD screen will light up; pressing the main power button again will turn off the LCD screen but will not turn off the product.
- If the inverter is connected to more than one battery, you can press & hold the main power button of any battery to turn on the product.
- The product will go into standby mode, with the LCD screen shut down, if it hasn't been used for 5 minutes. When you start to use the product again, the LCD screen will turn on automatically.
- The default standby time of the product is 2 hours. The product will automatically shut down if output power buttons are turned off or no loads are connected for 2 hours.
- Press and hold the main power button for 10 seconds to reset the Bluetooth connection.

Option 1

Long press the main power button of the inverter for 1 second to turn on the product. Press and hold for 2-3 seconds to turn off the product.

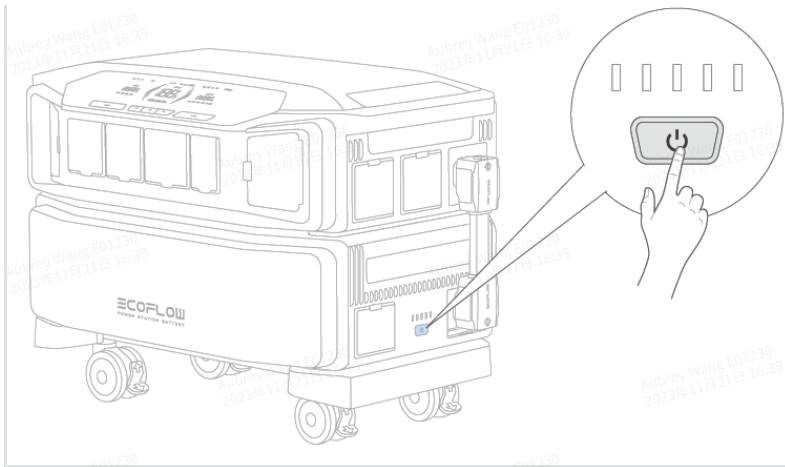


- Power on: long press for 1 second
- LCD screen off/on: press once
- Power off: press and hold for 2-3 seconds

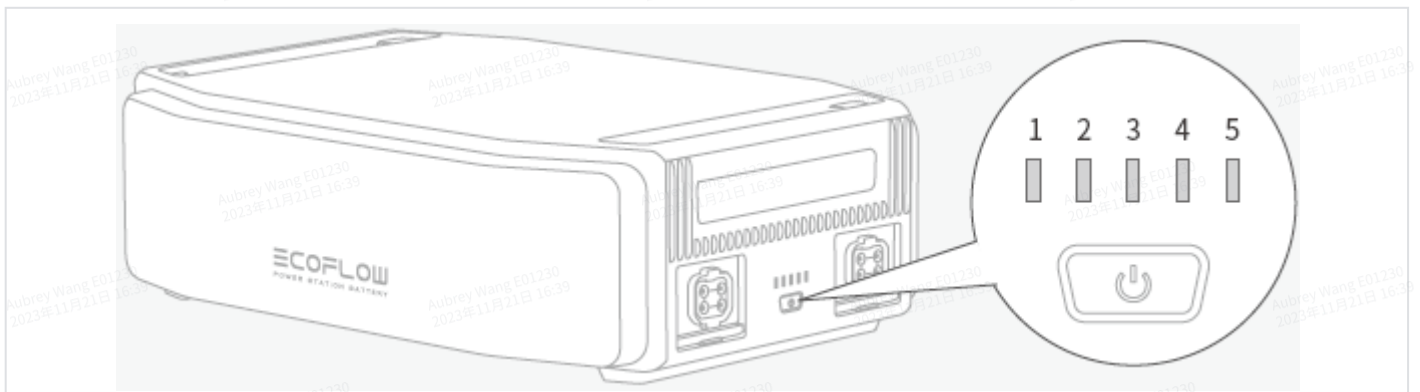
Option 2

Long press the main power button of the battery for 1 second to turn on the product. Press and hold for 2-3 seconds to turn off the product.

- Power on: long press for 1 second
- LCD screen off/on: press once
- Power off: press and hold for 2-3 seconds



LED Indication



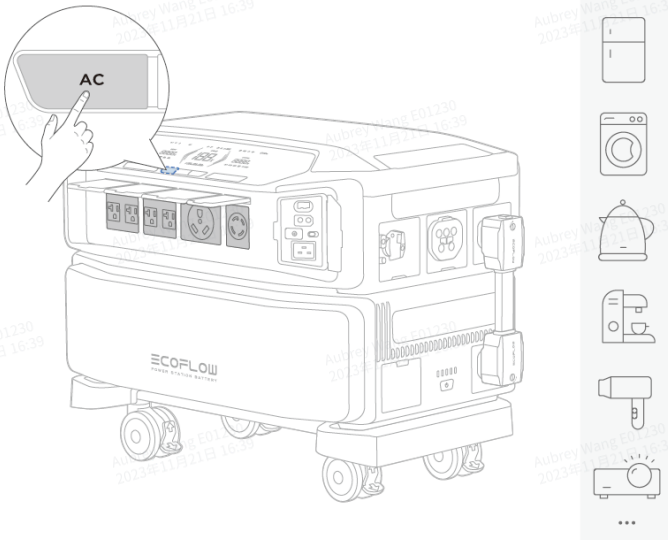
Status	Description
Power on	LED 1 to 5 sequentially lights up
Power off	LED 5 to 1 sequentially shuts down
Discharging	81%~100%: LED 1 to 5 solid 61%~80%: LED 1 to 4 solid 41%~60%: LED 1 to 3 solid 21%~40%: LED 1 to 2 solid 1%~20%: LED 1 solid 0%: LED 1 to LED 5 blinking
Charging	0~20%: LED 1 blinks 21~40%: LED 1 remains solid, LED 2 starts to blink 41~60%: LED 1 to 2 remain solid, LED 3 blinks 61~80%: LED 1~3 solid, LED 4 blinks 81~99%: LED 1~4 solid, LED 5 blinks 100%: LED 1 to LED 5 remain solid

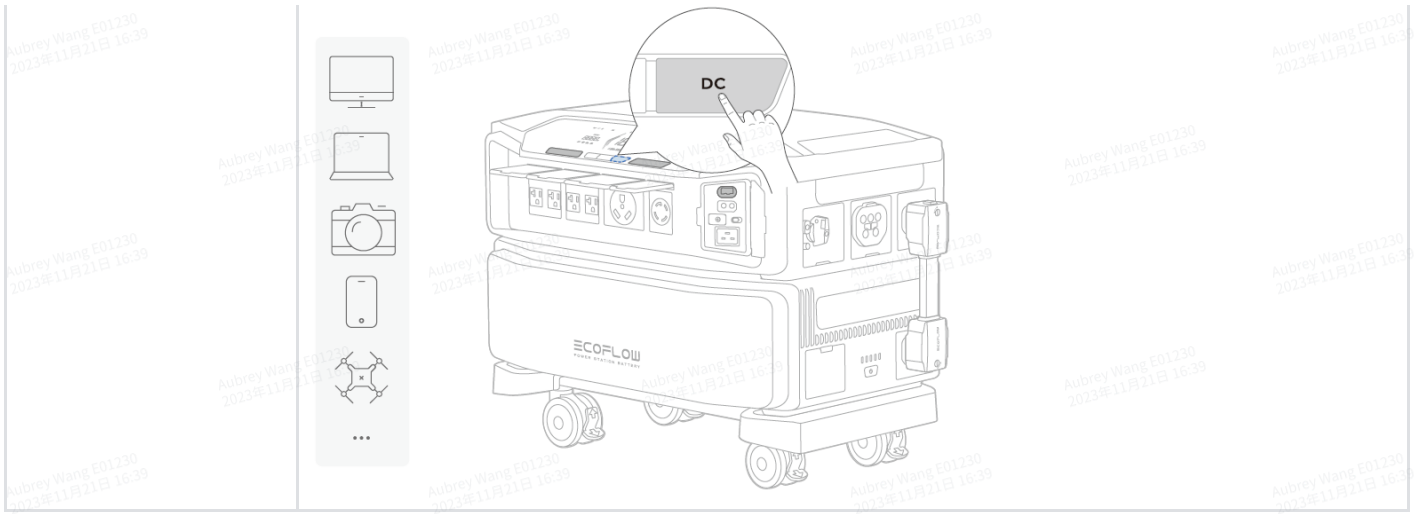
BMS high-temp notice	LED 2 blinks
BMS low-temp notice	LED 3 blinks
Upgrade firmware status	LED 2 and LED 3 blink alternately
Heating abnormality during charging	LED 4 blinks for about 10 seconds
Heating abnormality during discharging	LED 5 blinks for about 10 seconds

Charge Your Appliances

AC/DC Output

Press the DC power button or AC power button to enable AC output ports and DC output ports, and press again to disable them.

<p>NOTICE</p>	<ul style="list-style-type: none"> • Ensure that the product is turned on (check "Power On/Off" for details) before enabling DC/AC output. • Ensure that the total power of all loads is less than the rated power of the product. • After 12 hours of no load for the AC output ports, the AC power button will turn off automatically.
	 <p>The diagram shows the front panel of the EcoFlow power station. A hand is pointing to the 'AC' button on the control panel. To the right, a vertical list of icons represents various appliances that can be powered: a refrigerator, a washing machine, a kettle, a coffee maker, a hair dryer, and a lamp. An ellipsis (...) at the bottom of the list indicates that other appliances are also supported.</p>



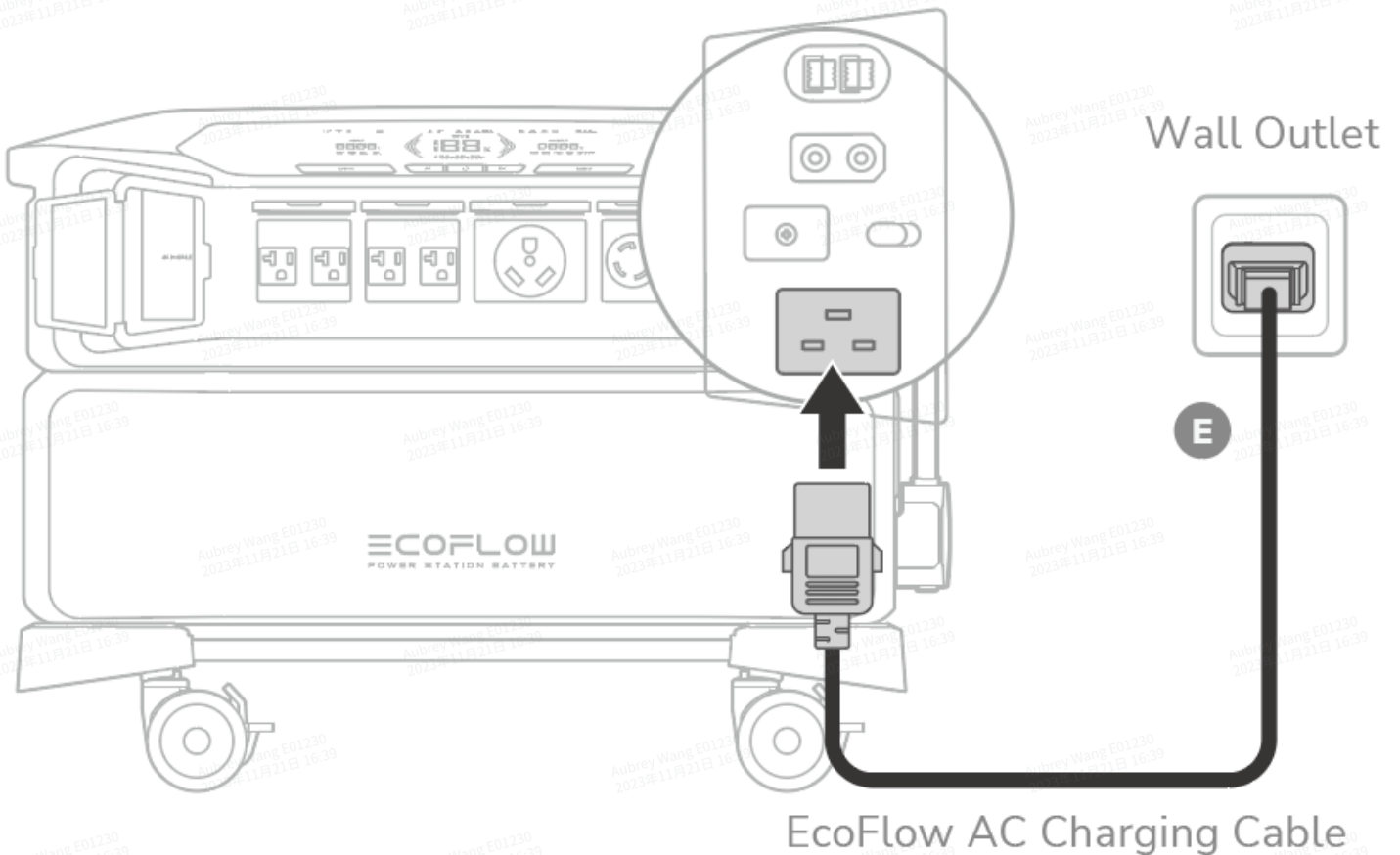
Recharge the Product

AC Charging



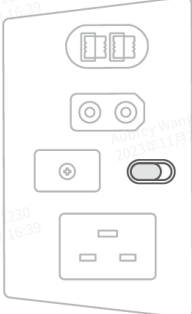
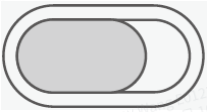
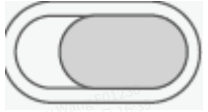
Keep the AC power button off while recharging the product through a high-voltage wall outlet.

You can recharge the product by connecting the supplied AC charging cable to the fast charging input port of the product and a wall outlet. To adjust the charging speed, you can either flick the AC charging speed switch or set it up in the EcoFlow app.



Adjust the AC charging speed

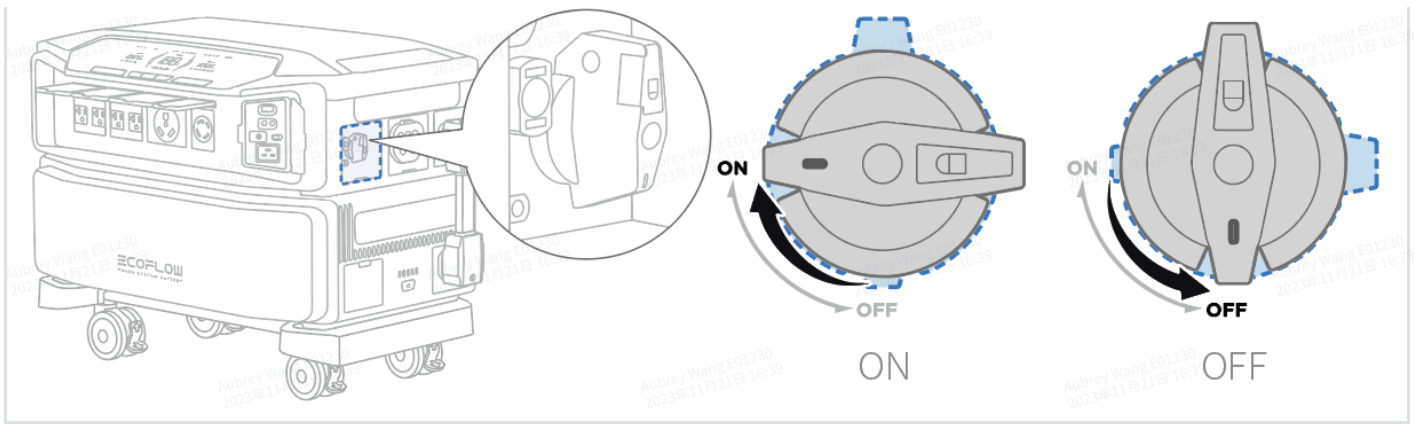
The charging speed can be adjusted via the AC charging speed switch. Turn the switch to the left, the charging speed will be at its peak; turn the switch to the right, and the charging speed will return to the default value. You can set the charging speed in the app.

		
	<p>Fast charging: 1,800 W max/3,000 W max</p>	<p>Default charging: 500 W</p>

Solar Charging

<p>⚠ DANGER</p>	<ul style="list-style-type: none"> To securely connect this product to the PV system circuit, we recommend that you consult qualified personnel for installation and other details. Solar panels and high-PV input charging cables are not included in the box; please purchase them on the EcoFlow official website and ensure that solar connectors of solar panels are compatible with high-PV input ports. The total output of the solar panels and the sunlight intensity determine the duration of the solar charging. Ensure that the maximum current output of all solar panels does not exceed 15A if you connect them in parallel. When connecting solar panels in series, ensure that the maximum voltage output of all panels is within 30V-150V for the low-PV input port, and 80V-450V for the high-PV input port (you can choose either low-PV or high-PV if the maximum voltage output of all panels is between 80V and 150V). To avoid product damage, ensure that the solar panels are properly connected to the low-voltage PV or high-voltage PV input port. If you connect the EcoFlow DELTA Pro Ultra to PV system circuits installed on or in buildings, according to NEC regulation, the system shall include a rapid shutdown function to ensure the safety of operation and reduce shock hazard for emergency responders. If you wish to connect the EcoFlow DELTA Pro Ultra to PV system circuits, the consultation before purchase and the installation must be done by a qualified electrician or installer.
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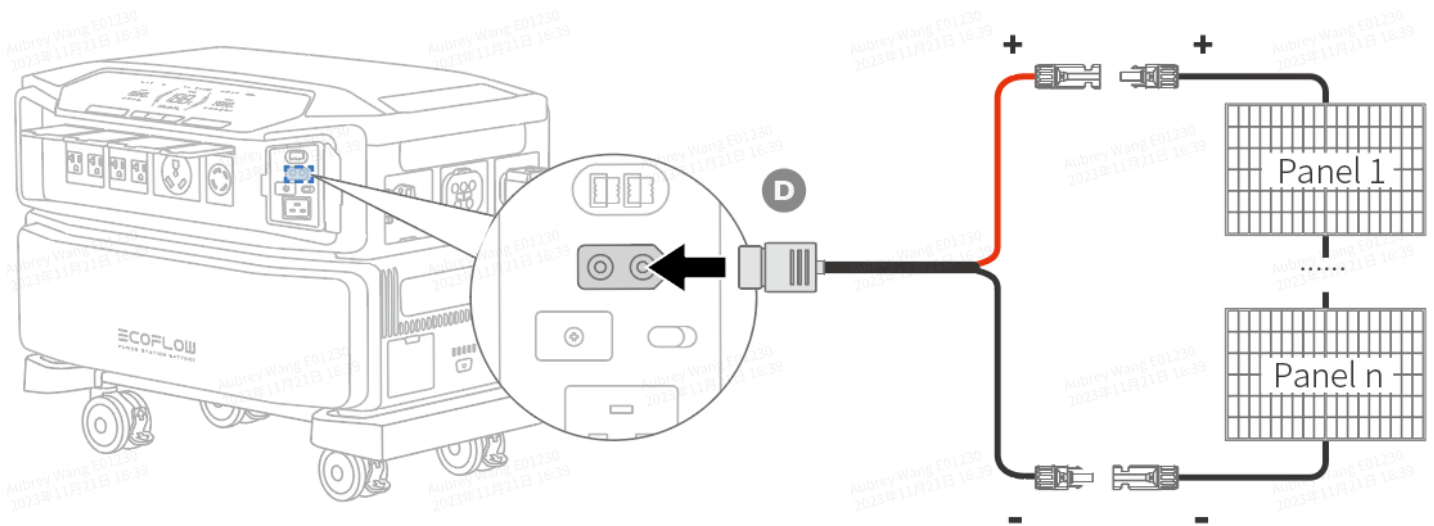
<p>⚠ WARNING</p>	<ol style="list-style-type: none"> Keep the PV switch "OFF" when connecting solar panels to the product. Whether you connect the solar panels to the low-PV input port or high-PV input port, you need to turn on the PV switch to enable solar charging once the solar panels are connected.
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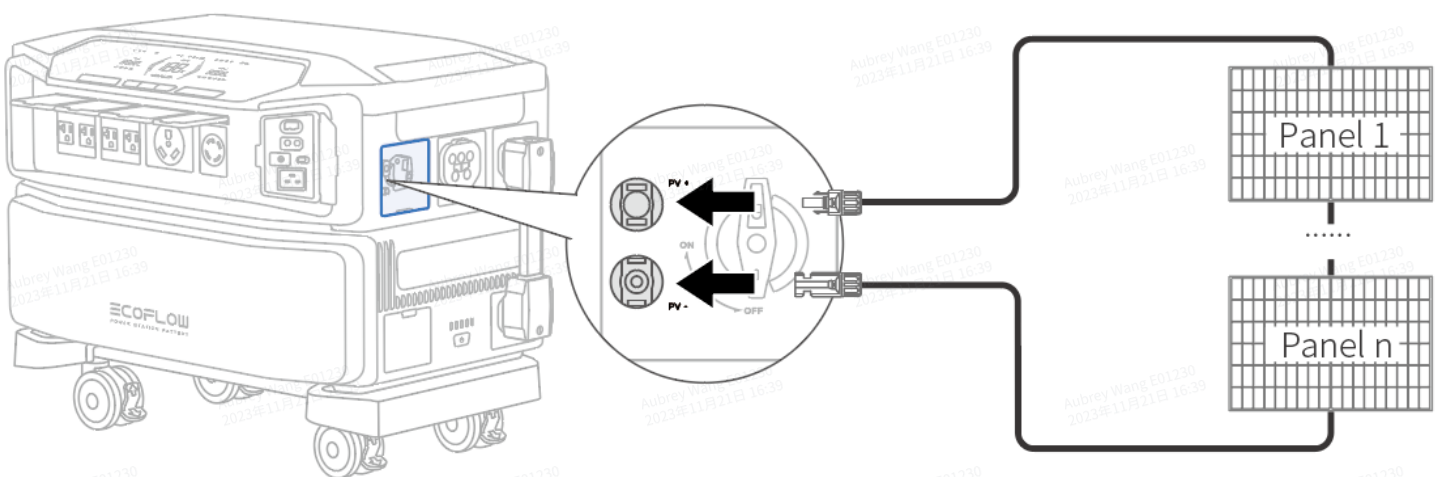
1. Connect to solar panels

Connect in series

1) Low-PV input voltage range: $30V < \text{panel 1} + \dots \text{panel n} < 150V$



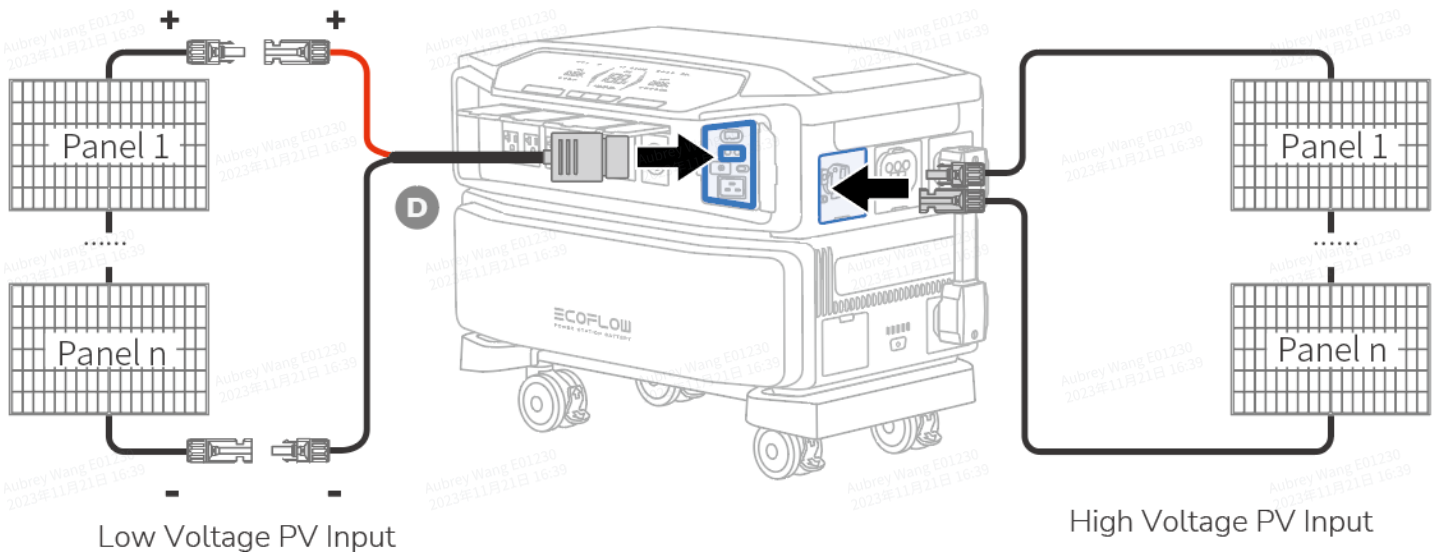
2) High-PV input voltage range: Voltage range: $80V < \text{panel 1} + \dots \text{panel n} < 450V$



3) Low-PV input + high-PV input

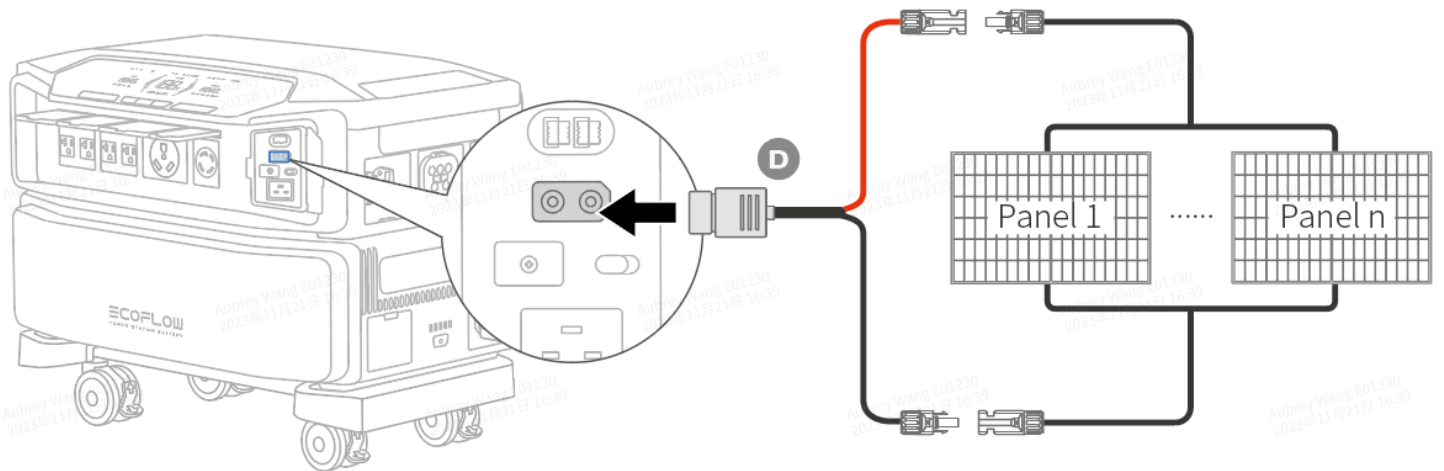
Voltage range for low-PV input: $30V < \text{panel 1} + \dots \text{panel n} < 150V$

Voltage range for high-PV input: $80V < \text{panel 1} + \dots \text{panel n} < 450V$



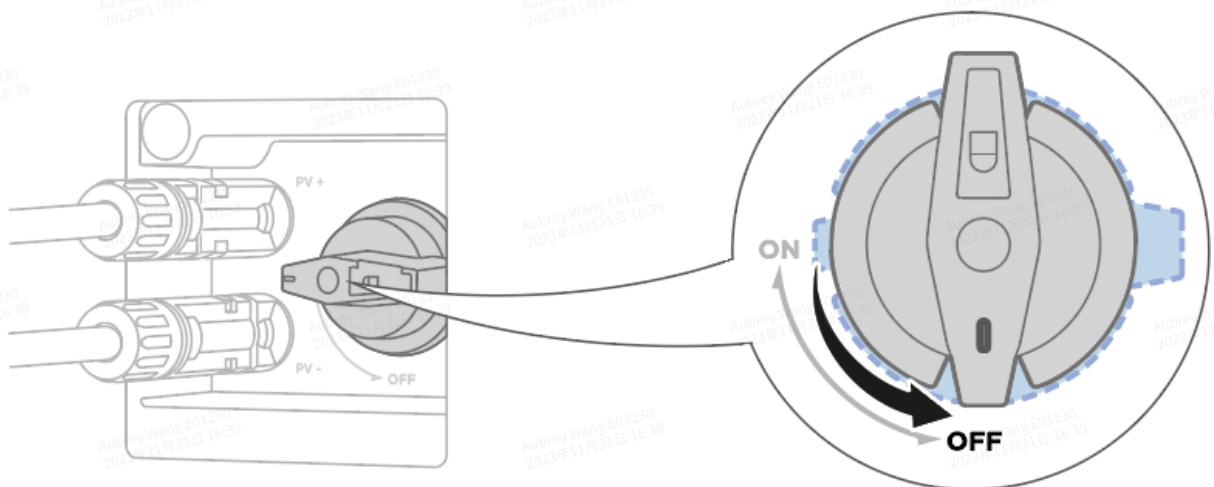
Connect in parallel

Current range: panel 1 + ... panel n < 15A

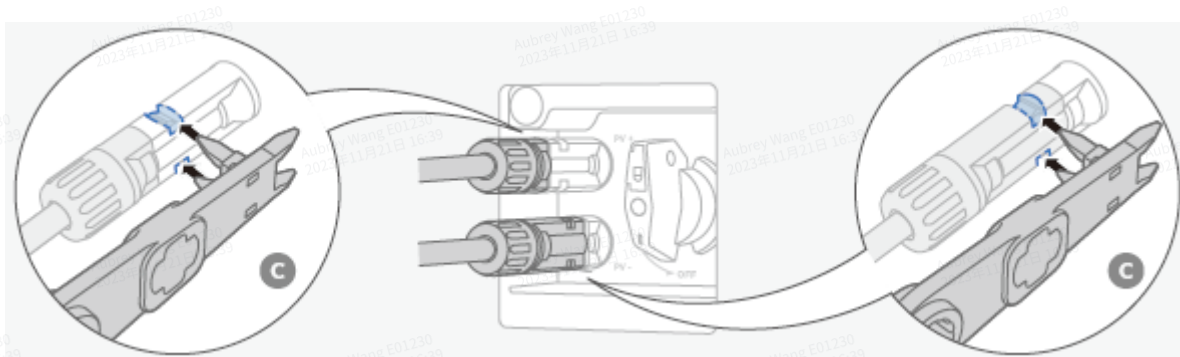


2. Remove solar charging cables

1. Turn off the PV switch.



- Align the d/a tool with solar connectors and detach them manually once they have dislodged off from the high-PV input ports.



Charge via EV Charger

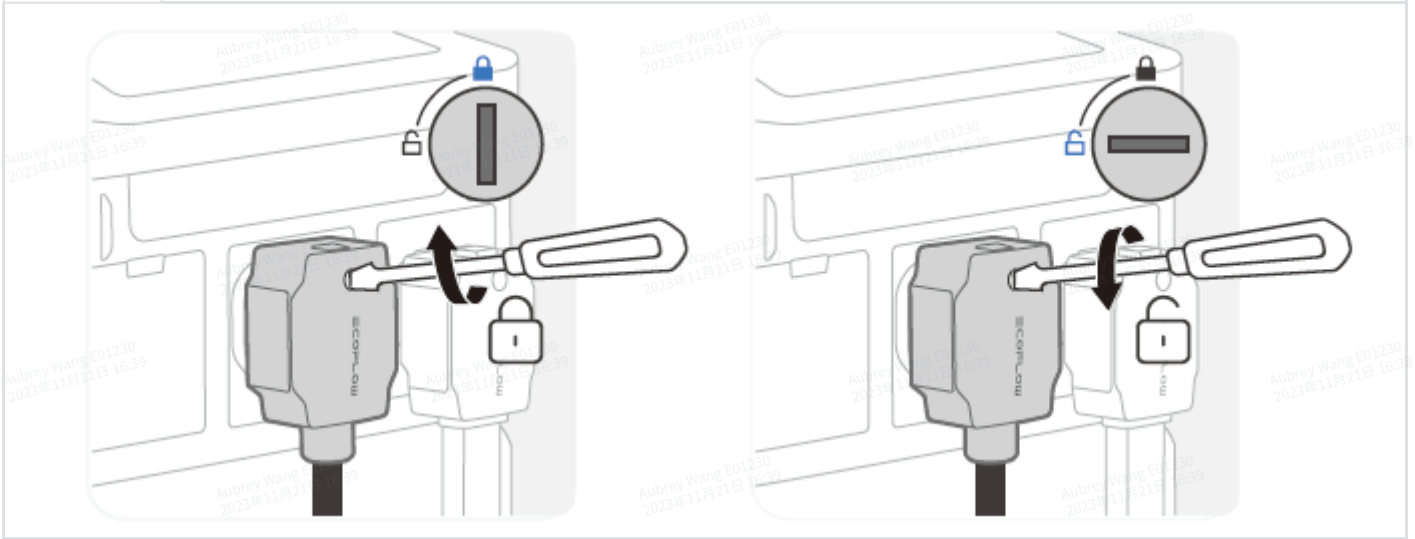
Connect your EV charger to the product to enable charging via the EV charger.

If you are unsure how to connect your EV charger to the product, refer to the user manual for EV charger or contact the manufacturer for details.

<p>1</p>	<ul style="list-style-type: none"> - EcoFlow EV X-Stream Adapter Adaptateur de charge EV X-Stream EcoFlow EcoFlow DELTA Pro Ultra 専用 EV アダプター EcoFlow 充電樁快轉接頭 - EcoFlow DELTA Pro Ultra - EV charger Chargeur de véhicule électrique EV 充電器 EV 充電器 	<p>Connect one side of the EV adapter to the power input/output port and the other side to the EV charger.</p>
<p>2</p>		<p>Turn on the product.</p>

NOTICE

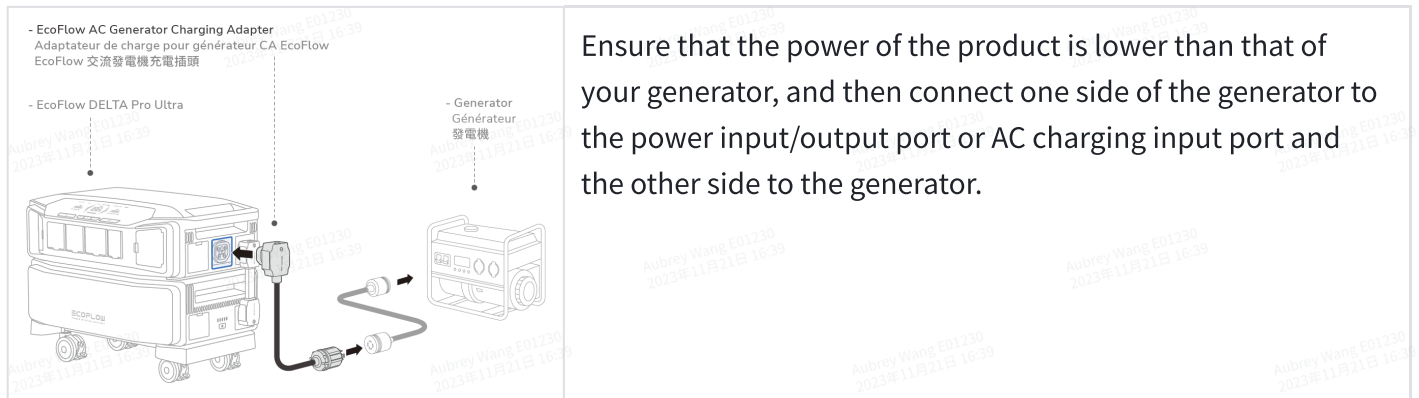
To avoid accidental unplugging, lock the adapter and unlock it when you need to remove the adapter (for details, check "Installation> Product Installation").



Charge via the Generator

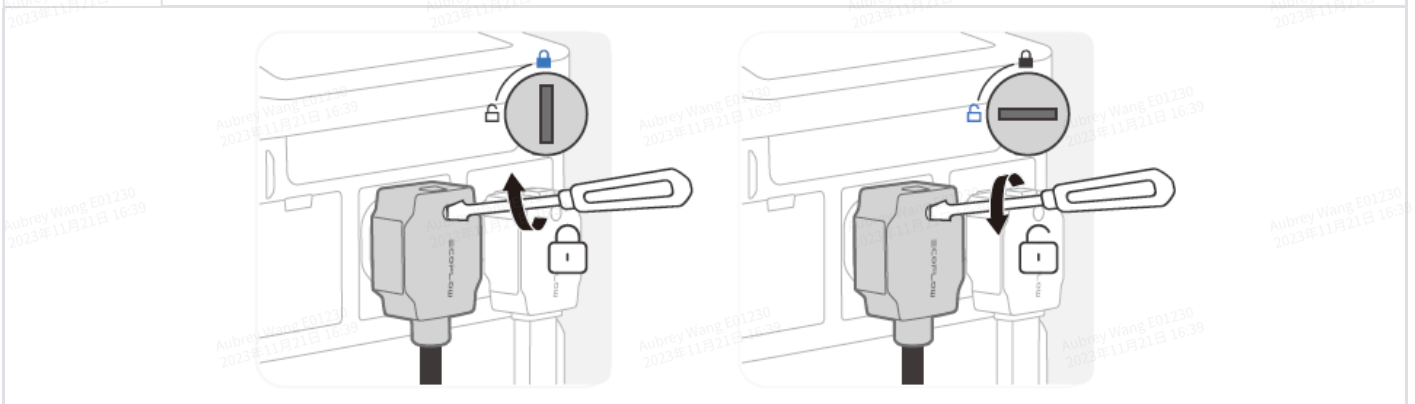
Connect your generator to the product to enable charging via the generator.

If you are unsure how to connect your generator to the product, refer to the user manual for generator or contact the manufacturer for details.



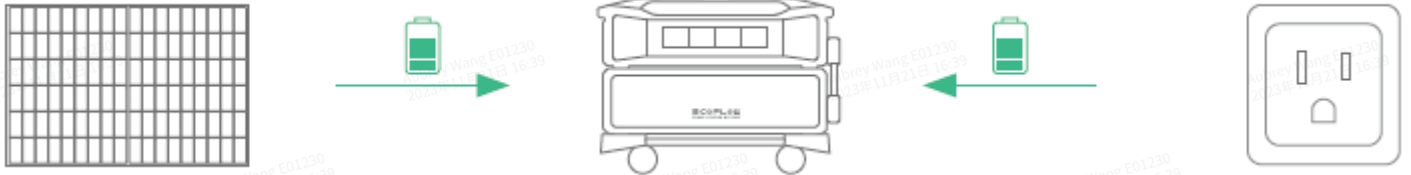
NOTICE

To avoid accidental unplugging, lock the adapter and unlock it when you need to remove the adapter (for details, check "Installation> Product Installation").



Solar Charging + AC Charging

Connect the product to solar panels and a wall outlet at the same time.



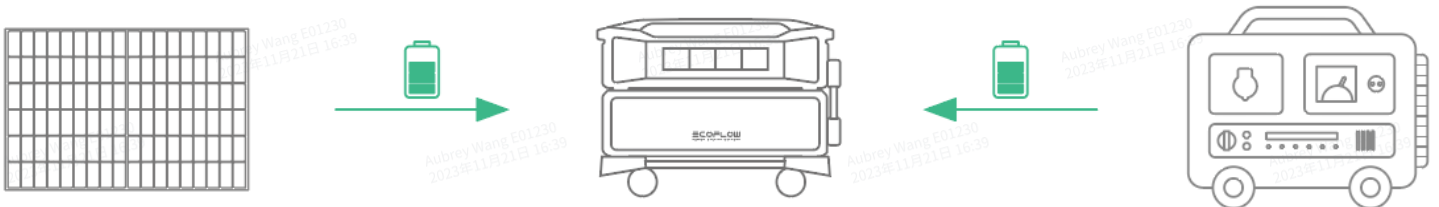
Solar Charging + EV Charger

Connect the product to solar panels and an EV charger at the same time.



Solar Charging + Generator

Connect the product to solar panels and a generator at the same time.

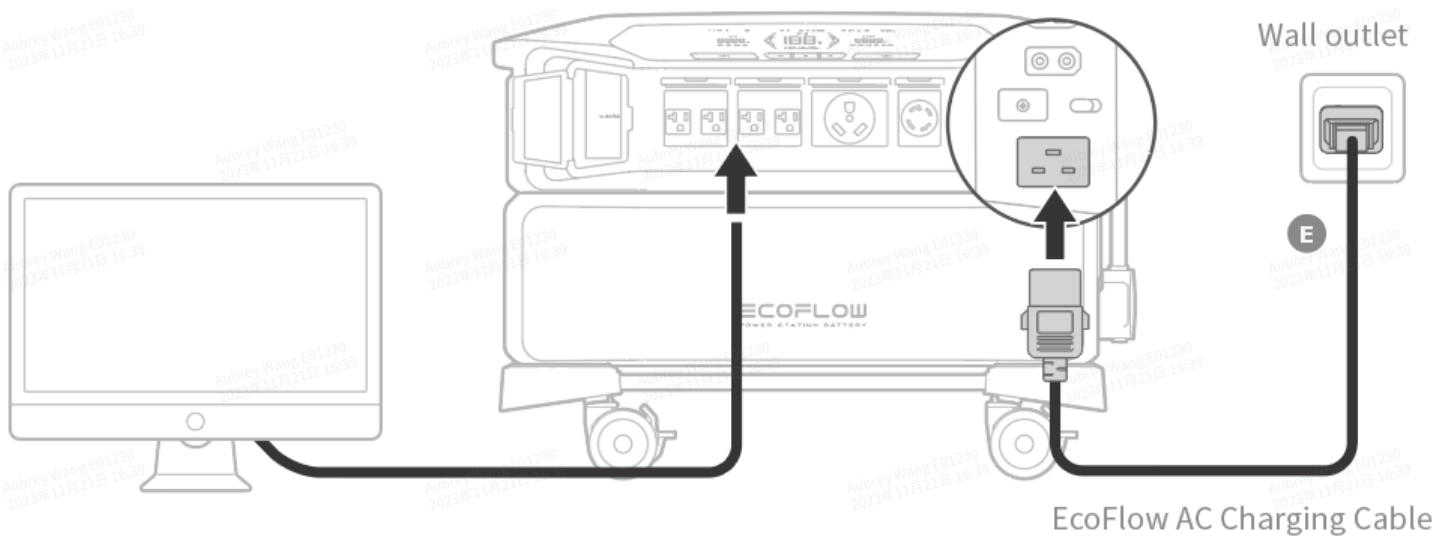


NOTICE

1. When both AC charging input port and power input/output port are connected to the product, the power input/output port will be preferably chosen for charging whereas AC charging will not be able to work
2. When you connect the product to more than one option for recharging, you can either connect to low-PV or high-PV input ports only, or both low- and high-PV input ports.

UPS

The product supports UPS: online UPS and backup UPS. Connect the product to a wall outlet (check "Recharge the Product > AC Charging") using the supplied AC charging cable and to your appliances at the same time, your appliances will receive power from the grid but not from the product. If your appliances require 0 ms switching, we recommend that you connect your appliances to AC output sockets (online UPS) for uninterrupted power supply.



<p>NOTICE</p>	<ol style="list-style-type: none"> 1. AC output sockets - Backup UPS support 20 ms switching. 2. AC output sockets - Online UPS support 0 ms switching.
	<p>The diagram shows three types of AC output sockets. The first is labeled 'Backup UPS' and shows two NEMA 5-15R sockets. The second is labeled 'Online UPS' and shows two NEMA 5-15R sockets and one NEMA 5-20R socket. The third is labeled 'Backup UPS' and shows one NEMA 5-20R socket.</p>

Whole Home Backup System

<p>CAUTION</p>	<ol style="list-style-type: none"> 1. The installation should be performed by a licensed electrician. Improper installation may result in death or serious injury and property damage.
	<ol style="list-style-type: none"> 2. This section is for reference purpose ONLY and does not constitute legal advice. Please consult the local licensed electrician for details

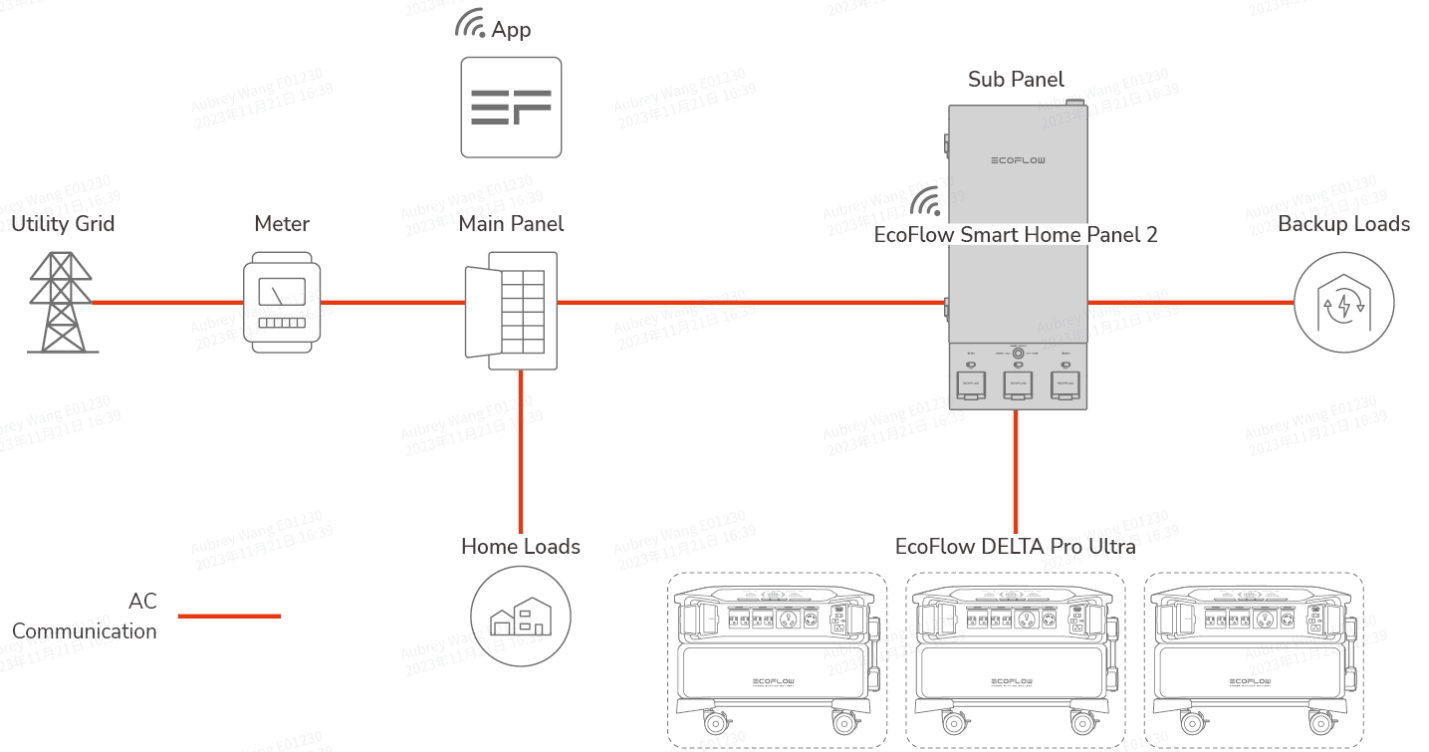
Introduction

Apart from charging or discharging separately, the product can also be used to create a whole home backup system that stores power for your appliances using the following options. You can check daily/monthly/yearly figures or configure settings via the EcoFlow app. You will enjoy an outage-free life after installing this whole home backup system, which is specifically suitable for emergency backup during tornado seasons, power outage, peak power demand, and so on.

How to Connect

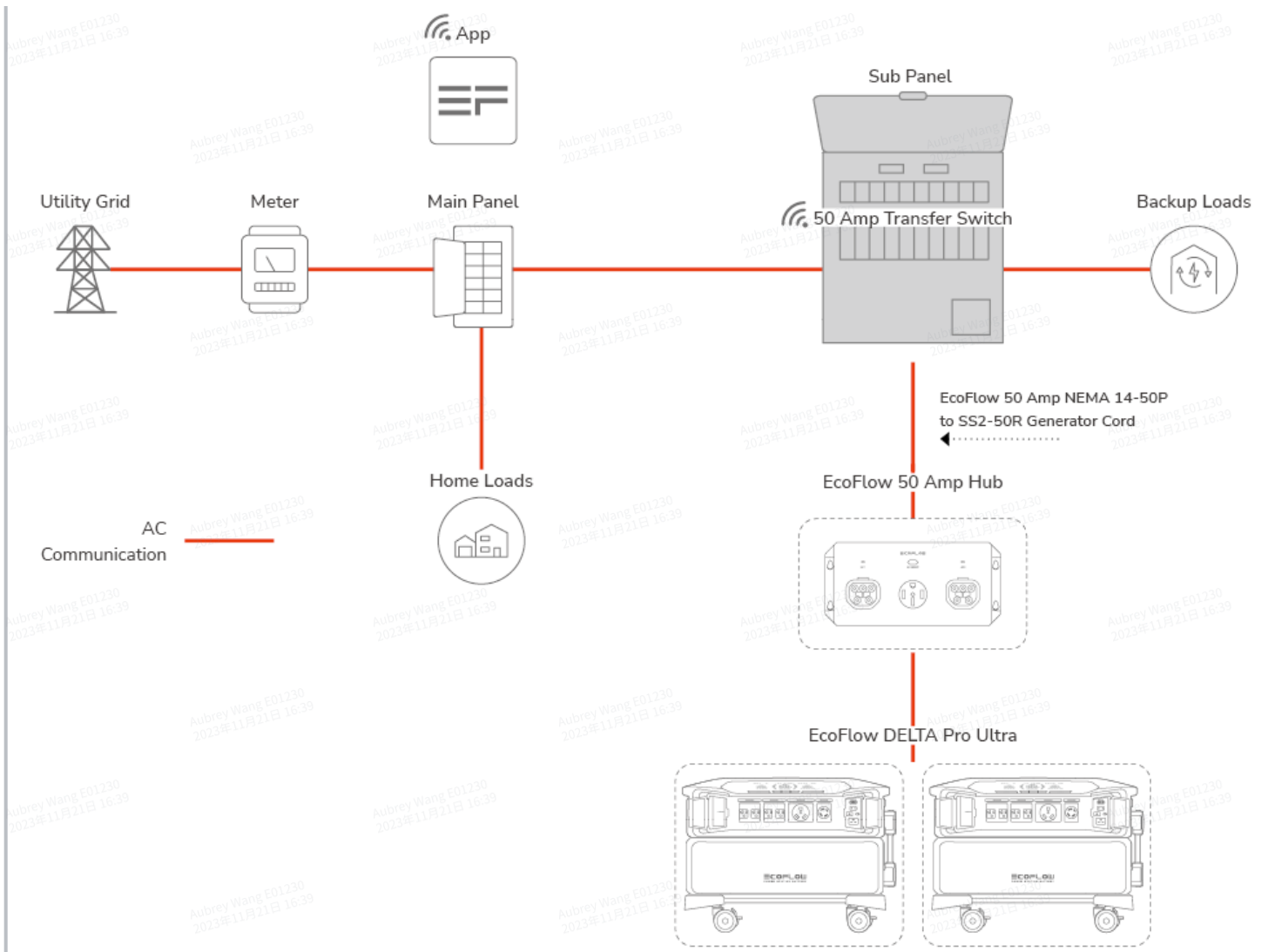
Scheme 1

EcoFlow DELTA Pro Ultra (×3 sets max) + EcoFlow Smart Home Panel 2 (sub panel) + main panel + meter + grid



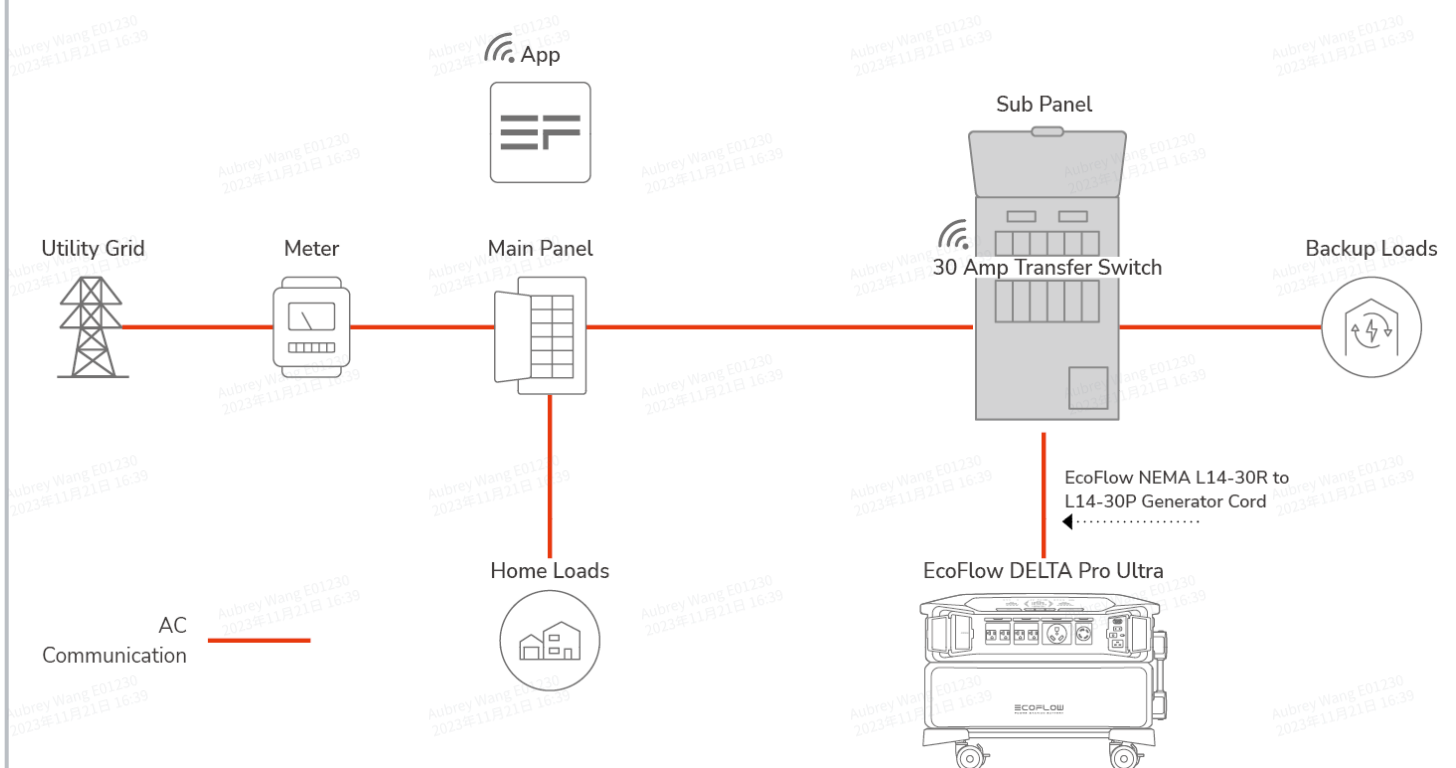
Scheme 2

EcoFlow DELTA Pro Ultra (×2 sets max) + EcoFlow 50 Amp Hub + 50 Amp transfer switch + main panel + meter + grid



Scheme 3

EcoFlow DELTA Pro Ultra (× 1 set) + 30 amp transfer switch + main panel + meter + grid



Download EcoFlow App

Control, monitor, and customize your EcoFlow DELTA Pro Ultra from afar with the EcoFlow App.

Download here: <https://download.ecoflow.com/app>

	<p>Privacy Policy</p> <p>By using EcoFlow Products, Applications, and Services, you consent to the EcoFlow Term of Use and Privacy Policy, which you can access via the “About” section of the “User” page on the EcoFlow App or on the official EcoFlow website at</p> <p>https://www.ecoflow.com/policy/terms-of-use and https://www.ecoflow.com/policy/privacy-policy</p>
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Maintenance

EcoFlow DELTA Pro Ultra

1. Ask qualified personnel to check or maintain the product, and replace the original components with identical replacements.
2. Use clean and dry cloth or paper to clean dirt or stains off the ports. Do not clean the product with chemicals or corrosive materials.
3. For safety reasons, turn off the product before maintenance to avoid the risk of electric shock.
4. Check the product regularly according to the following checklist:

Item	Method	Maintenance Interval
Heat dissipation	Check periodically that vents are free from obstacles and dust.	Every 3 months
Dirt cleaning	If there is any stain/dirt, use a dry, soft cloth to wipe it off. Please don't use any abrasives or chemical liquids to clean the product.	Every 3 months
System running status	<ol style="list-style-type: none">1. Check that the product is not damaged or deformed.2. Ensure the product operates with no abnormal sound.	Every 3 months

Cable connection	Ensure all cables are intact and securely connected.	Every 3 months
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EcoFlow DELTA Pro Battery

1. The battery must remain at 45°C for at least 20 hours during two charge/discharge cycles.
2. If the charging/discharging level is not fully charged after one month or 30 cycles, it will automatically charge up to 100% for calibration (calibration). When calibration is complete, it automatically reverts to the user-set charge/discharge limit.
3. It is recommended to be used and stored in an environment of 20°C to 45°C. Keep away from humid places, places where water can get wet, near heat sources, and metals.
4. For long-term storage, please discharge the product every three months (firstly discharge it to 0%, then fully recharge it, and lastly discharge it to 60%); the product will not be covered by the warranty if it is not charged or discharged for more than 6 months.
5. For battery safety and life, do not store this product in an environment above 45°C or below -20°C.
6. If the battery level drops below 1% after using the product, charge it up to 60% before storing it. If the battery is stored for a long period of time, it will cause serious damage to the battery and shorten its usage cycle.
7. If the battery is stored for a long period of time with significantly low battery, the product will go into deep sleep mode and must be charged and released from deep sleep mode before re-use.

Charging Heating

Charging heating is automatically activated when ambient temperature is below 0°C (32°F) and the battery will be in charging mode. The activation sequence is as follows:

1. Charging heating requires charging input ≥ 250 W. When the battery internal temperature rises above 5°C (41°F), the battery will start heating as well as charging process.
 2. When the battery internal temperature rises above 10°C (50°F), charging heating stops, and battery charging continues.
- The charge heating function works in temperature range of -20°C~0°C (-4°F~32°F).

Discharging Heating

The capacity of the battery can be significantly reduced when discharging at high power at low temperatures. In the following ambient temperature conditions, the discharging heating feature will automatically start when the battery is discharging. The details are as follows.

1. When the temperature is below -10°C (14°F) and the remaining battery percentage is above 80%, the discharging heating will automatically turn off.
2. When the temperature is below -5°C (23°F) and the remaining battery percentage is below 80% and above 60%, the discharging heating feature will automatically turn off.
3. When the temperature is below 0°C (32°F) and the remaining battery percentage is below 60% and above 30%, the discharging heating feature will automatically turn off.
4. If the battery level is less than 30%, the discharging heating feature will not turn off automatically.

FAQ

1. Do the output ports of the inverter work while the product is being charged?

If the product is connected to a high-voltage wall outlet or an EV charger, only DC output will be able to charge your appliances.

2. Do I need to buy extension cables for low/high-PV input ports?

If you need to connect several solar panels in series or parallel, we recommend that you purchase extension cables. Please consult EcoFlow customer service for more details.

3. Can the inverter be used on its own?

No, it can't. The inverter does not have a built-in battery, therefore, it must be used with a battery.

4. Is the inverter compatible with third-party batteries?

No, the EcoFlow DELTA Pro Ultra Inverter is only compatible with the EcoFlow DELTA Pro Ultra Battery.

5. What appliances can be powered through the product's AC output ports?

The product's AC output ports can power most household appliances with a maximum rated power of 7,200W. Before you use it, we recommend that you check the power of the appliances first and ensure that the maximum power of all appliances connected is less than the rated power.

6. How long can the product charge my devices?

The remaining charging time is displayed on the inverter's LCD screen, which can be used to estimate the remaining charging time for most appliances with stable power consumption.

7. How do I know if the product is charging?

When it is charging, the remaining charging time will be displayed on the inverter's LCD screen.

8. How do I clean the product?

Please use a dry, soft and clean cloth or tissue to clean the product.

9. Can I take the product on a plane?

No, you can't. Please follow local laws and regulations regarding air travel.

10. Is the actual output power of the product the same as the capacity in Specifications?

The product capacity in the specifications is the rated capacity of the EcoFlow DELTA Pro Ultra Battery. There might be power loss in the process of charging and discharging. Please refer to the actual product or contact EcoFlow customer service for details.