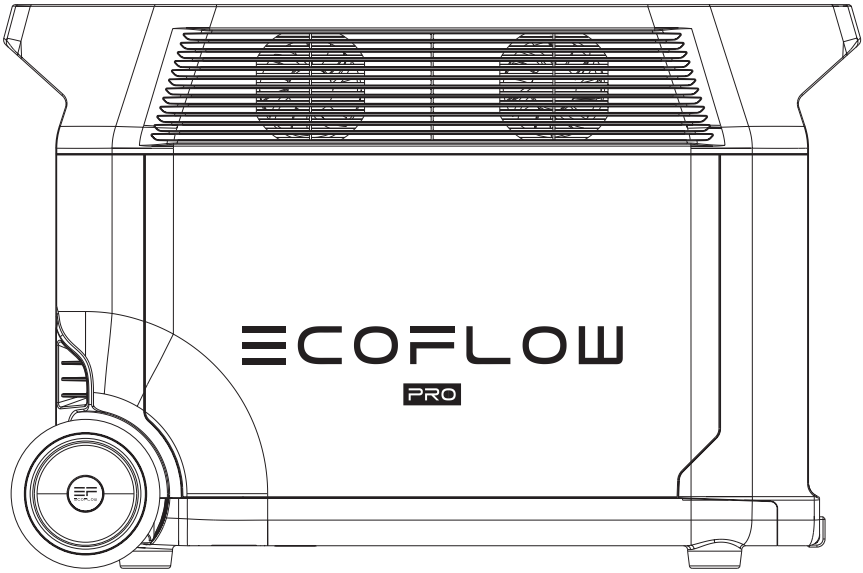
EcoFlow DELTA Pro | User Manual



DISCLAIMER

Read all safety tips, warning messages, terms of use, and disclaimers carefully. Refer to the terms of use and disclaimer at **https://ecoflow.com/pages/terms-of-use** and stickers on the product before use. Users take full responsibility for all usage and operations. Familiarize yourself with the related regulations in your area. You are solely responsible for being aware of all relevant regulations and using EcoFlow products in a way that is compliant.

CONTENTS

1. Specifications

General Info

Net Weight	Approximately 99lbs
Dimensions	25x11.2x16.4in
Capacity	3600Wh, 48V
Certification	cTUVus FCC Telec
Wi-Fi	Supported
Bluetooth	Supported

Output Ports

AC (x5)	Pure Sine Wave, 3600W total (surge 7200W), 120V~ (60Hz)
USB-A (x2)	5V⎓2.4A, 12W Max per port
USB-A Fast Charge (x2)	5V⎓2.4A 9V⎓2A 12V⎓1.5A, 18W Max per port
USB-C (x2)	5/9/12/15/20V⎓5A, 100W Max per port
Car Charger	12.6V⎓10A, 126W Max
DC5521 Output (x2)	12.6V⎓3A, 38W Max per port
Anderson Output	12.6V⎓30A, 378W Max

* A car charger shares power with the DC5521 output port, offering a maximum output of 126W.

Input Ports

AC Charge	120V 1800W Max, 240V 3000W Max
AC Input Voltage	100-120V~ 15A, 220-240V~ 12.5A, 50Hz/60Hz
Solar Charger	11-150V⎓15A Max, 1600W Max
Car Charger	Supports 12V/24V Battery, Default 8A

Battery Info

Cell Chemistry	LFP
Shelf Life	1 year (after a full charge)
Cycle Life	3500 cycles to 80%+ capacity
Protection	Over Voltage Protection, Overload Protection, Over Temperature Protection, Short Circuit Protection, Low Temperature Protection, Low Voltage Protection, Overcurrent Protection

Environmental Operating Temperature

Optimal Operating Temperature	68°F to 86°F
Discharge Temperature	14°F to 113°F
Charge Temperature	32°F to 113°F
Storage Temperature	14°F to 113°F (optimal: 68°F to 86°F)

* Whether the product can be charged or discharged depends on the actual temperature of the battery pack.

Add-ons (sold separately)

DELTA Pro Smart Extra Battery	Up to two units
EcoFlow Smart Generator	
DELTA Pro Remote Control	Wired or wireless
Double Voltage Hub	
EV X-Stream Adapter	Charge from electric vehicle charging

2. Safety Instructions

2.1 Usage

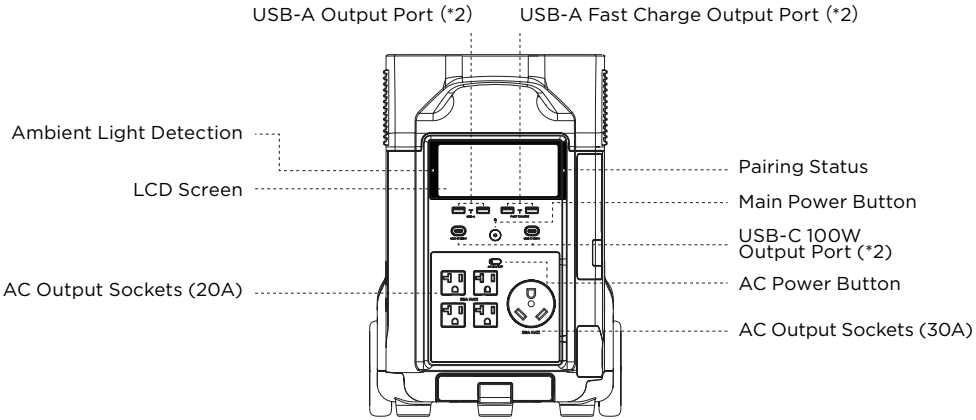
1. Do not use the product near a heat source, such as a fire source or a heating furnace.
2. Avoid contact with liquids of any kind. Do not use in the rain or high humidity.
3. Do not use around strong static electricity or magnetic fields.
4. Do not disassemble in any way or puncture.
5. Avoid using wires or other metal objects that may result in a short circuit.
6. Do not use third-party components or accessories. Consult official EcoFlow channels if you need to replace any component or accessory.
7. When using the product, please strictly follow the operating environment temperature specified in this user manual. If the temperature is too high, it may result in a fire or explosion; if the temperature is too low, the product performance may be severely reduced, or the product may cease to work.
8. Do not stack any heavy objects on the product.
9. Do not lock the fan forcibly during use or place the product in an unventilated or dusty area.
10. Ensure the product is not hit, dropped, or heavily vibrated. Securely fasten the product when transporting to avoid damage. If severely damaged, turn off the power source immediately and discontinue using the product.
11. If you accidentally drop the product into water during use, please place it in a safe open area, and stay away from it until it is completely dry. The dried product should not be used again, and should be properly disposed of according to Section 2.2 below. If the product catches fire, we recommend that you use the fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and finally a carbon dioxide fire extinguisher.
12. Only clean the ports with a dry cloth.
13. Place on a flat surface to keep the product from falling over. If the product is overturned and severely damaged, turn it off immediately, place the battery in an open area, keep it away from people and combustibles, and dispose of it in accordance with local laws and regulations
14. Keep out of reach of children and pets.

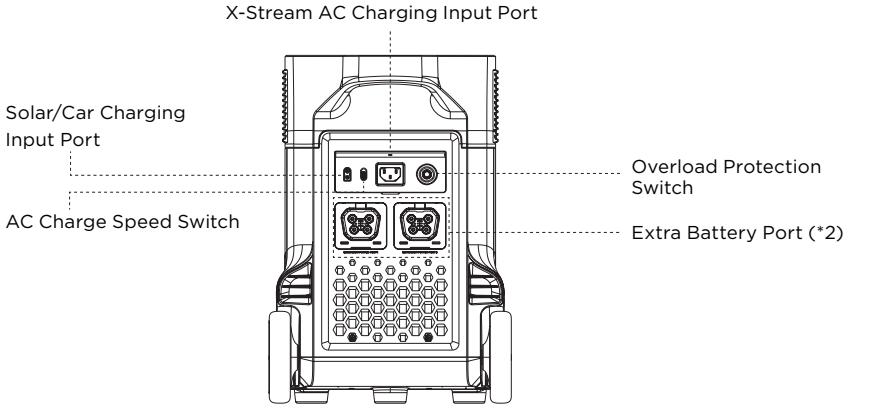
2.2 Disposal Guide

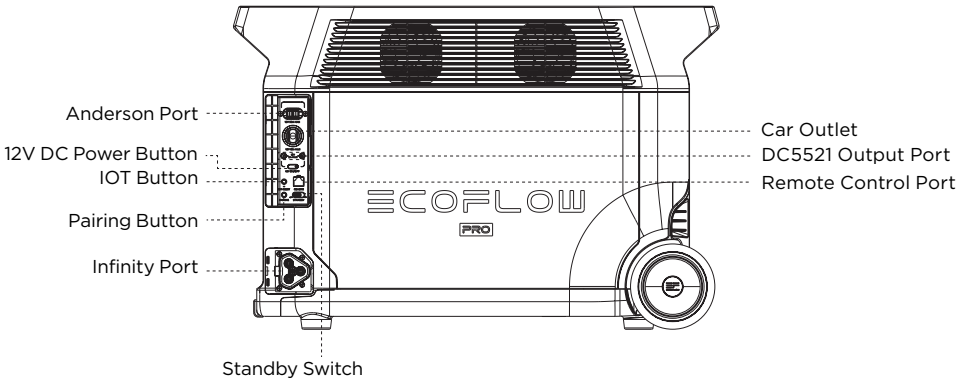
1. When possible, fully discharge the battery before disposing it. Because it contains hazardous chemicals, only dispose of the battery in designated recycling channels and never with ordinary trash. Consult your local laws on battery recycling and disposal.
2. If the battery cannot be fully discharged due to product failure, contact a professional battery recycling company for further processing.
3. Please dispose of batteries that no longer recharge.

3. Getting Started

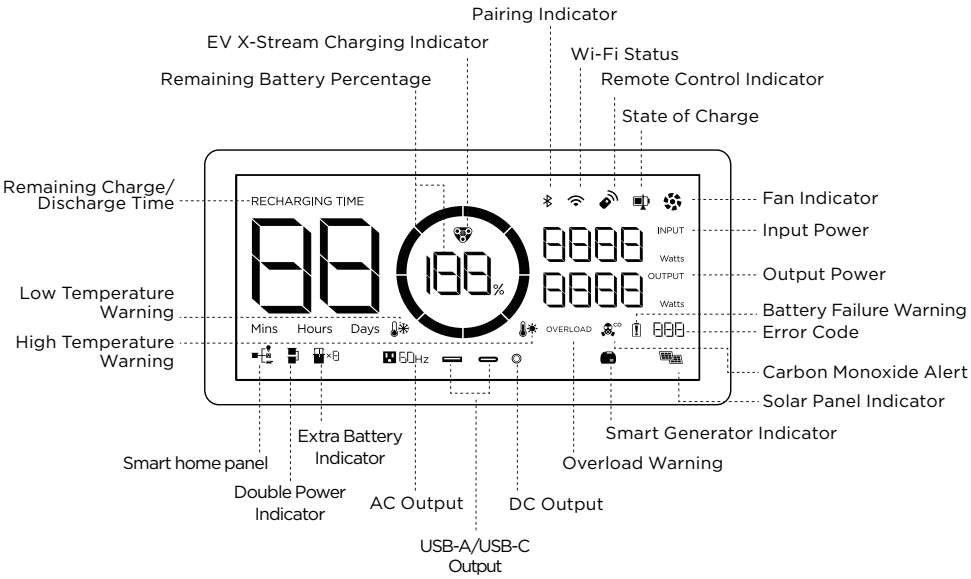
3.1 Product Details







3.2 LCD Screen



Battery Level Indicator: The ring will fill up while charging. If the product is at 0% charge, the ring will flash

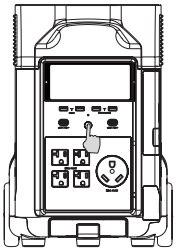
Wi-Fi Status: After the IOT button has been pressed for 3 seconds, the Wi-Fi icon will flash to indicate the product is ready for pairing. Connect the product with the app, either (1) by finding the product on your phone's Wi-Fi connections or (2) by connecting the product to the internet. If the former, the icon will keep flashing; if the latter, the icon will not flash.

Error Code: Refer to the EcoFlow app for specific error codes.

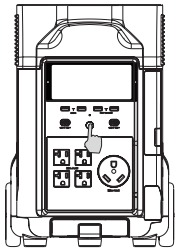
Carbon Monoxide Alert: Appears whenever a connected EcoFlow Smart Generator automatically shuts off after detecting unsafe carbon monoxide levels.

* See Section 5 for more troubleshooting steps.

3.3 General Product Usage



Short Press to Turn On



Long Press to Turn Off

Product On, Product Off, LCD Screen On

Short press the Main Power Button to turn on the product; the LCD Screen will light up and the battery level indicator icon will display.

The product enters sleep mode after 5 minutes of idle operation; the LCD Screen will automatically turn off. When the product senses any load change or operations, the LCD Screen will automatically light up. To turn the LCD Screen on or off, please short press the Main Power Button.

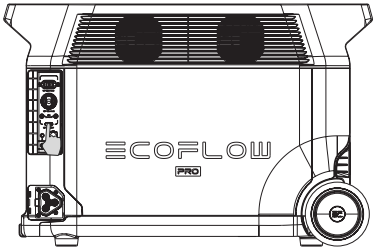
To power off the product, press and hold the Main Power Button.

The default product standby time is 2 hours. With other Power Buttons turned off and no other load access for 2 hours, the product will automatically shut down. The standby time can be set on the APP.

12V DC Output Port

With the Main Power Button turned on, short press the 12V DC Power Button to use the 12V DC Output port. Short press the 12V DC Power Button again to turn it off.

With the 12V DC Power Button on, the product will not automatically shut down.



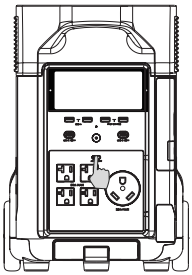
Short Press
12V DC Power Button

AC Output Port

With the Main Power Button turned on, short press the AC Power Button to use the AC Output ports. Short press the AC Power Button again to turn it off.

The default standby time of the AC Output port is 12 hours. Without any load access for 12 hours, the AC Power will automatically turn off.

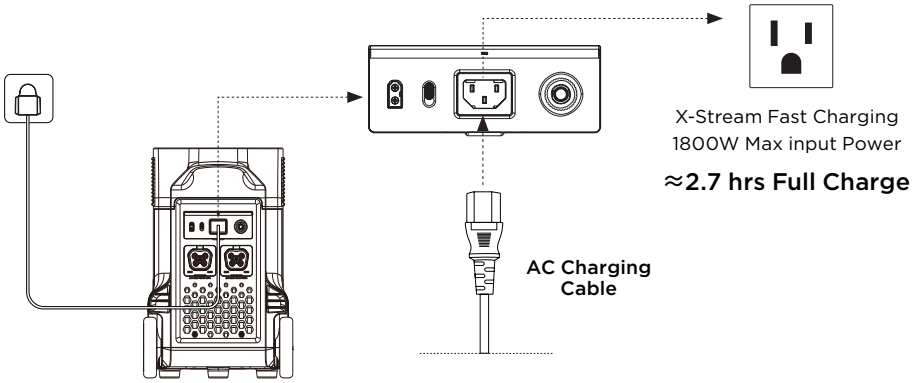
Please turn off AC power button when not in use to save power consumption.

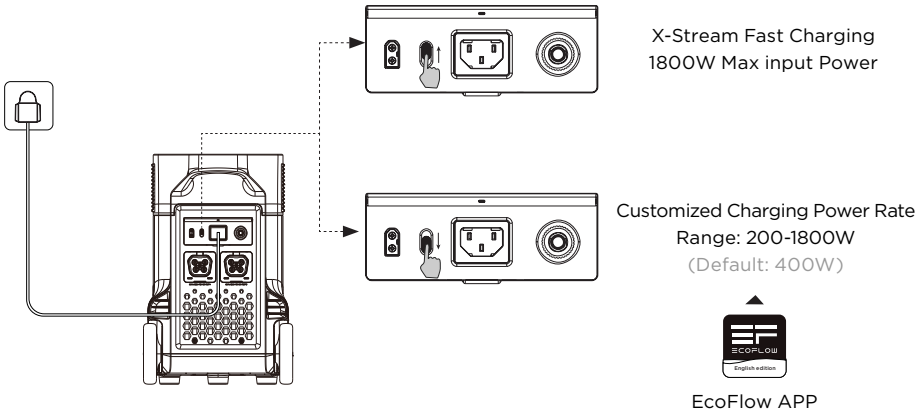


Short Press
AC Power Button

3.4 AC Charging

EcoFlow's X-Stream fast charge technology is specifically for AC charging, offering 1800W of max input power. You can control the charging power through the AC Charge Speed Switch. The default max input power for the AC charging speed is 400W, which can be modified in the EcoFlow app.
In case of unusual situations where the AC input current remains higher than 20A, the X-Stream charging input port will initiate a self-protection function, and the Overload Protection Switch on the product will automatically pop up. After confirming that there is no product failure, you can press the Overload Protection Switch to resume charging.

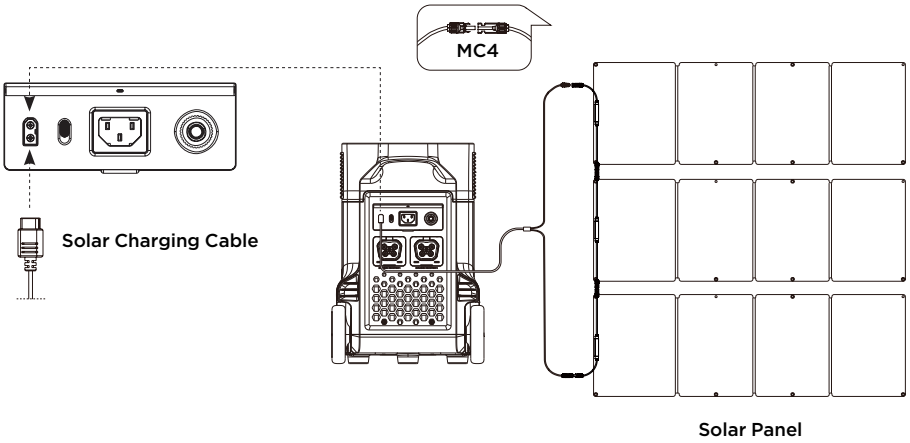




The charging power can be adjusted through the AC Charge Speed Switch on the back of the product. You can set the charging power range in the EcoFlow App.
Please use the AC Charging Cable included in the package for fast charging. Do not use other cables to charge. Plug directly into an AC wall outlet and make sure that the wall output current is more than 15A. Otherwise, reduce the unit charging speed with the AC Charge Speed Switch. EcoFlow takes no responsibilities for any consequences caused by failures to follow instructions, including but not limited to charging with other AC charging cables.

3.5 Solar Charging

Users can connect solar panels in series as shown in the figure to recharge the product. The product supports 11-150V DC input, 15A max current, and 1600W max charging power.

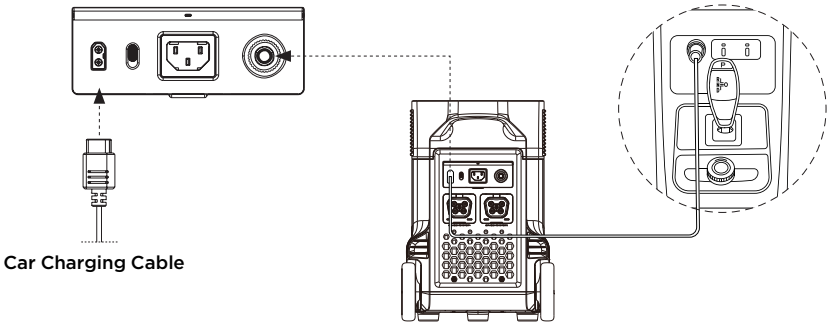


When using an EcoFlow solar panel to charge the product, please follow the instructions that come with the solar panel.
Before connecting the solar panel, please ensure that the solar panel's output voltage is within 150V to avoid product damages.

3.6 Car Charging

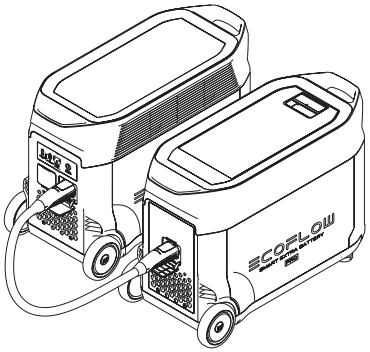
Users can recharge the product through the Car Outlet. It supports 12V/24V car chargers and an 8A default charging current.

Please charge using the car charger after you've started the car to avoid failure to start due to insufficient car battery. In addition, please make sure that the cigarette lighter of the Car Outlet and the Car Charger Input Cable are in good condition. EcoFlow takes no responsibilities for any losses or damages caused by failures to follow instructions.



3.7 Using Smart Extra Battery

A single DELTA Pro can link with up to two Smart Extra Batteries at once for added capacity. Refer to the user manuals of the Smart Extra Battery and Smart Generator for detailed instructions.



Precautions:

1. Turn off both the Smart Extra Battery and DELTA Pro before connecting or disconnecting them.
2. Before using, make sure both DELTA Pro and Smart Extra Battery display the extra battery icon on their screens.
3. Turn of the Smart Battery before connecting or disconnecting it.
4. Do not touch the metal terminals of the Smart Extra Battery connector. If the metal terminals need to be cleaned, gently wipe them with a dry cloth.

3.8 APP

The EcoFlow App gives users the ability to control and monitor EcoFlow power stations remotely.

Read the EcoFlow App user guide and access the download link here:

https://ecoflow.com/pages/ecoflow-app

Privacy Policy

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 **https://ecoflow.com/pages/terms-of-use** and **https://ecoflow.com/pages/privacy-policy**

3.9 X-Boost

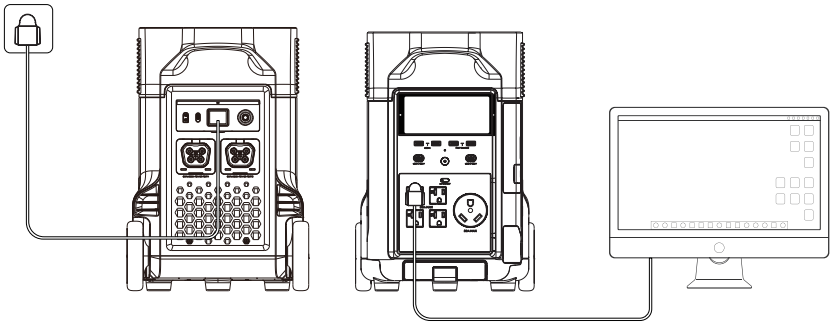
With EcoFlow X-Boost technology, the product can power a 4500W Max device while the rated output power remains 3600W, avoiding operation failure due to overload protection.

X-Boost Tips:

1. X-Boost is not available when the AC output is turned on in a recharging state (in bypass mode).
2. X-Boost is not applicable for all electrical appliances; it's incompatible with appliances with strict voltage requirements and a rated power over 3600W. Appliances with voltage protection (such as precise instruments) are not supported. X-Boost mode is more suitable for heating devices. Please conduct your own tests with your devices with X-Boost enabled.

3.10 Emergency Power Supply (EPS)

The product supports EPS. When you connect the grid power to the AC Input Port of the product through an AC cable, you can power electrical devices through the AC Output Port (AC power will come from the grid and not the power station in this situation). In case of a sudden blackout, the product can automatically switch to the battery powered supply mode within 30ms. As a basic UPS function, this function does not support 0ms switching. Please do not connect the product to any device that requires 0ms UPS, such as data servers and workstations. Please test and confirm the compatibility before using the product. We recommend that you only charge one device at a time and avoid using multiple ones at the same time to avoid overload protection. EcoFlow takes no responsibilities for any device failures or data losses caused by failures to follow instructions.



4. FAQs

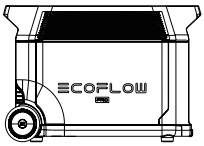
1. What battery does the product use?
It uses high-quality LFP battery.
2. What devices can the product's AC output port power?
With 3600W rated power and 7200W peak power, the product's AC output port can power most household appliances. Before you use it, we recommend that you confirm the power of the appliances first and ensure the power sum of all loaded appliances is lower than the rated power.
3. How long can the product charge my devices?
The charging time is shown on the product's LCD Screen, which can be used to estimate the charging time of most appliances with stable power usage.
4. How can I know if the product is charging?
When it's charging, the remaining charging time will be shown on the LCD Screen. Meanwhile, the charging indicator icon begins to rotate with the remaining battery percentage and the input power shown on the right of the circle.
5. How to clean the product?
Please gently wipe it with a dry, soft, clean cloth or paper towel.
6. How to store the product?
Before storing, please turn off the product first, and then store it in a dry, ventilated place at room temperature. Do not place it near water sources. For long-term storage, please discharge the battery to 30% and recharge it to 60% every three months to extend its battery life.
7. Can I bring the product on a plane?
No.

5. Troubleshooting

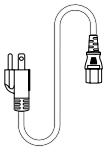
Indicator	Problem	Solution
OVERLOAD (Flashing)	USB-A Overload Protection	Resume normal operation by removing the electrical device connected to the USB-A port.
OVERLOAD (Flashing)	USB-C Overload Protection	Resume normal operation by removing the electrical device connected to the USB-C port.
(Flashing)	USB-C High Temperature Protection	After the product cools down, it will resume normal operation automatically.
RECHARGING TIME (Flashing)	High Temperature Charge Protection	Charging can be resumed automatically after the battery cools down.
(Flashing)	High Temperature Discharge Protection	The power supply can be resumed automatically after the battery cools down.
RECHARGING TIME (Flashing)	Low Temperature Charge Protection	Charging can be resumed automatically after battery temperature rises above 41°F.
(Flashing)	Low Temperature Discharge Protection	The power supply can be resumed automatically after the battery temperature rises above 10°F.
60Hz OVERLOAD (Flashing)	AC Output Overload Protection	Normal operation will be resumed automatically after you remove the overloaded device and restart the product. Electrical appliances should be used within rated power. (Refer to X-Boost instructions to get more details about power limitations).
60Hz (Flashing)	AC High Temperature Protection	Please confirm whether the fan inlet and outlet are blocked, if not, normal operation will be resumed automatically after the product temperature drops.
60Hz (Flashing)	AC Low Temperature Protection	Normal operation will be resumed automatically after the product is used at optimum environmental temperatures.
(Flashing)	Fan Blockage	Please check if the fan is blocked by foreign materials.
OVERLOAD (Flashing)	Car Charger Overload Protection	The product will resume normal operation automatically after you remove the device connected to the car charger.
(Flashing)	Car Charger High Temperature Protection	After the product cools down, it will resume normal operation automatically.
(Stays On)	Battery Failure	Contact EcoFlow Customer Service

If the Alarm Prompt shows on the product LCD screen during use and does not disappear after a restart, please stop using it immediately (do not try to charge or discharge).
If you require any other assitance, please contact EcoFlow Customer Service.

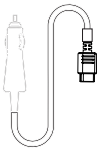
6. What's In the Box



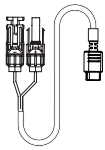
DELTA Pro



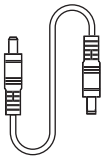
AC Charging Cable



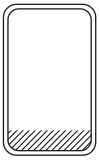
Car Charging Cable



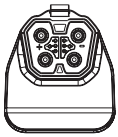
Solar Charging Cable



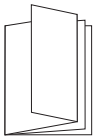
DC5521 to DC5525 Cable



Handle Cover



DELTA Pro to
Smart Generator Adapter

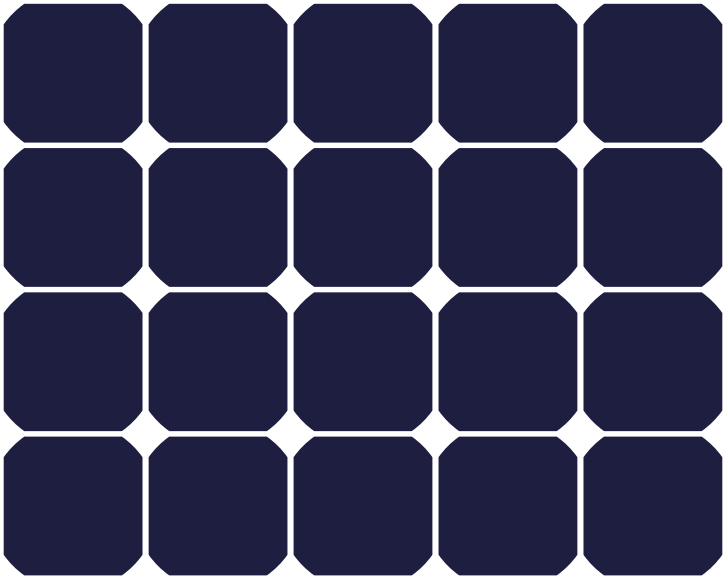


User Manual &
Warranty Card

7. Storage & Maintenance

1. Ideally, use and store the product between 68°F to 86°F, and always keep it away from water, intense heat, and sharp objects. Do not store in temperatures above 113°F or below 14°F for an extended period.

2. Storing a battery with a low charge for a long period shortens its lifespan. DELTA Pro mitigates the damage by putting the battery into hibernation mode. To get the most out of the battery, make sure it is about 60% before putting DELTA Pro into long-term storage, and then once every three months, discharge the battery to 30% and recharge it back to 60%.



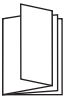
ECOFLOW
SOLAR PANEL

Contact Us:
support@ecoflow.com
www.ecoflow.com

What's in the Box

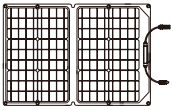
Kickstand Case

Solar Panel



User Manual
& Warranty Card

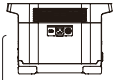
Connection method



Solar Panel

MC4 to XT60 Cable
(Solar Charging Cable)
* The accessory is sold separately

XT60
Input Port



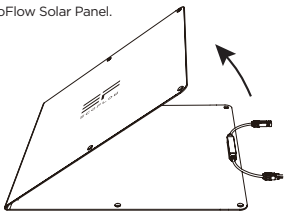
EcoFlow™ DELTA
(Sold Separately)

EcoFlow RIVER series
(Sold Separately)

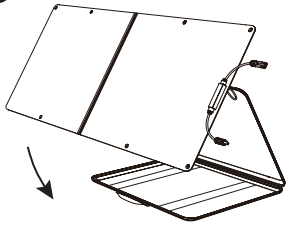
Portable power stations

How to set up your solar panel

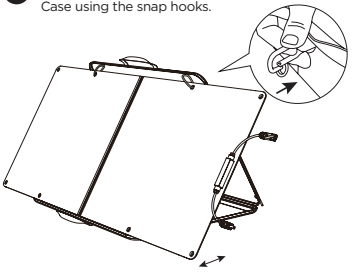
1 Open and unfold the EcoFlow Solar Panel.



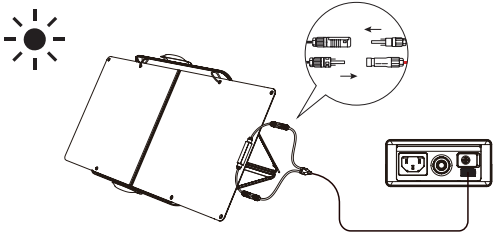
2 Adjust the solar panel on the Kickstand Case.



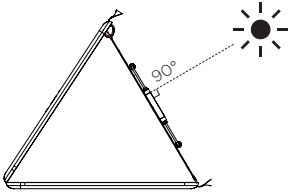
3 Attach the solar panel onto the Kickstand Case using the snap hooks.



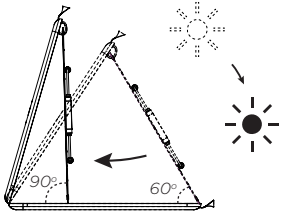
4 Connect the solar panel MC4 Connector to the MC4 to XT60 Cable (Solar Charging Cable, sold separately) and connect the MC4 to XT60 Cable to the XT60 port on the EcoFlow power station.



5 In order to increase the efficiency of the EcoFlow Solar Panel, use it in direct sunlight, position it perpendicular to the sunlight, and make sure the solar panels are unobstructed.



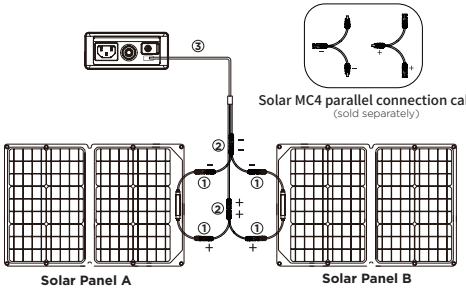
6 The carrying case also doubles up as a kickstand, which enables you to position the solar power in a 60° to 90° angle.



Connecting the Solar Panels in Parallel or in Series

Wire solar panels in parallel
(refer to the figure below)

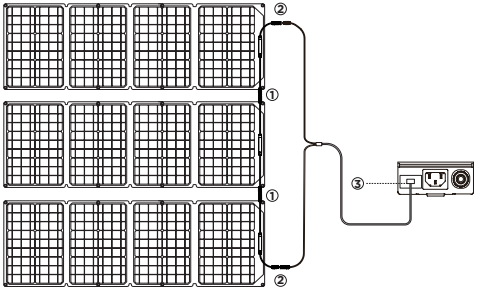
1. Connect the positive poles of the solar panels with the positive poles of the Solar MC4 Parallel Connection Cable. Connect the negative poles of the solar panels with the negative poles of the Solar MC4 Parallel Connection Cable;
2. Connect the parallel cable connectors (output side) with the MC4 connectors on the MC4 to XT60 Cable (sold separately);
3. Connect the XT60 connector on the MC4 to XT60 Cable to the XT60 port on the EcoFlow portable power station.



Refer to the user manuals of specific EcoFlow power stations to discover more information about connecting solar panels.

Wire solar panels in series
(refer to the figure below)

1. Connect the male connector of one solar panel to the female connector of the other solar panel;
2. Connect the solar panel MC4 Connectors to the MC4 to XT60 Cable (sold separately);
3. Connect the XT60 connector on the MC4 to XT60 Cable to the XT60 port on the portable power station.
Refer to the user manuals of specific EcoFlow power stations to discover more information about connecting solar panels.



Refer to the user manuals of specific EcoFlow power stations to discover more information about connecting solar panels.

FAQ

Are EcoFlow solar panels waterproof?

EcoFlow Solar Panels are IP67 rated, which means they can be submerged in a body of water up to a meter deep for 30 mins. They are also are dustproof, durable, and suitable for outdoor usage. If you wish to clean your solar panel, use a gentle stream of water and do not use high-pressure water sources such as a jet spray, as high pressure may damage the solar panels.

Does the charging speed of EcoFlow solar panels vary?

Solar panel charging speeds vary with different operating and environmental conditions:
Weather: Solar panels may have lower outputs in cold, cloudy, and rainy conditions;
Positioning: Solar panels may have lower outputs when they are not directly facing the position of the sun;
Obstructions: Solar panels may have lower outputs when placed under shade, behind other objects, or behind a window.
Warning: Avoid applying external pressure to the solar panels; doing so can damage the solar panel cells and result in reduced outputs.

Can EcoFlow solar panels be used in extreme weather conditions?

Please use the solar panels in stable weather conditions. The optimal temperature range for normal use and storage of EcoFlow solar panels is -4°F to 185°F (-20°C to 85°C).
Warning: DO NOT use solar panels during severe weather conditions, such as thunderstorms, strong winds, and hailstorms.

Can EcoFlow solar panels store power themselves?

Solar panels convert solar energy into electricity and pass it as a DC current to an EcoFlow power station, as opposed to storing power themselves.

Technical Specifications

160W Solar Panel

Rated Power: 160W(+/-5W)*

Open Circuit Voltage: 21.4V (Vmp 18.2V)

Short Circuit Current: 9.6A (Imp 8.8A)

Efficiency: 21%-22%

Cell Type: Monocrystalline silicon

Connector type: MC4

Operating & Storage Temperature:
-4° F to 185° F (-20° C to 85° C)

General

Weight: 15.4 lbs(7.0KG)

Solar Panel: 11 lbs(5.0KG)

Unfolded Dimensions:
26.8*61.8*1.0 in (68*157*2.4 cm)

Folded Dimensions:
26.8*16.5*1.0 in (68*42*2.4 cm)

Warranty: 12 months
*Warranty period may vary according to local laws and regulations.

Tested And Certified

IP67

110W Solar Panel

Rated Power: 110W(+/-5W)*

Open Circuit Voltage: 21.7V (Vmp 18.5V)

Short Circuit Current: 6.3A (Imp 6.0A)

Efficiency: 21%-22%

Cell Type: Monocrystalline silicon

Connector type: MC4

Operating & Storage Temperature:
-4° F to 185° F (-20° C to 85° C)

General

Weight: 13.2 lbs (6KG)

Solar Panel: 8.8lbs (4KG)

Unfolded Dimensions:
20.2*62.5*1.0 in (51.4*158*2.4 cm)

Folded Dimensions:
20.2*16.5*1.0 in (51.4*42*2.4 cm)

Warranty: 12 months
*Warranty period may vary according to local laws and regulations.

Tested And Certified

IP67

60W Solar Panel

Rated Power: 60W(+/-5W)*

Open Circuit Voltage: 21.6V (Vmp 18.2V)

Short Circuit Current: 3.5A (Imp 3.3A)

Efficiency: 21%-22%

Cell Type: Monocrystalline silicon

Connector type: MC4

Operating & Storage Temperature:
-4° F to 185° F (-20° C to 85° C)

General

Weight: 8.8 lbs(4KG)

Solar Panel: 4.4 lbs(2.0KG)

Unfolded Dimensions:
21*32.1*1.0 in (53.7*81.5*2.4 cm)

Folded Dimensions:
21*16.5*1.0 in (53.7*42*2.4 cm)

Warranty: 12 months
*Warranty period may vary according to local laws and regulations.

Tested And Certified

IP67

* Rated Power is tested under Standard Test Conditions:1000W/m2, AM1.5, 25°C