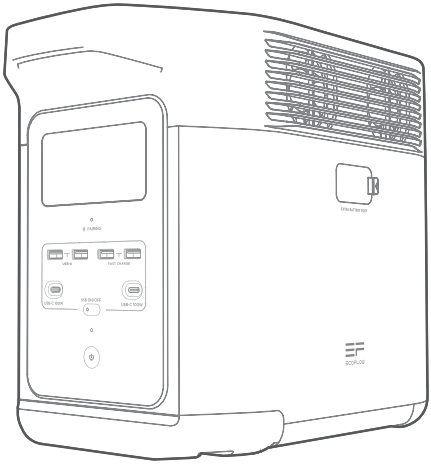
EcoFlow DELTA 2

User Manual

V1.0



Disclaimer

Read this user manual carefully before using the product to ensure that you completely understand the product and can correctly use it. After reading this user manual, keep it properly for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. EcoFlow is not liable for any loss caused by the user's failure to use this product in compliance with this user manual.

In compliance with laws and regulations, EcoFlow reserves the right to final interpretation of this document and all documents related to this 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.

Content

Specifications

General Info	
Net Weight	Approximately 12 kg
Dimensions	400 × 211 × 281 mm
Capacity	1,024Wh, 51.2V ⎓
Wi-Fi	Frequency Range: 2412-2472/2422-2462MHz Maximum Output Power: 14.85dBm
Bluetooth	Frequency Range: 2,402-2,480MHz Maximum Output Power: 9.39dBm
Output Ports	
AC (×4)	Pure Sine Wave, 1,800W total (surge 2,700W), 230V~ (50Hz/60Hz), bypass mode 1,800W
AC (bypass mode)	220-240V~ 50Hz/60Hz total 9A
Max X-Boost Output Power	2,400W
USB-A (×2)	5V ⎓ 2.4A, 12W max. per port, total 24W
USB-A Fast Charging (×2)	5V ⎓ 2.4A, 9V ⎓ 2A, 12V ⎓ 1.5A, 18W max. per port, total 36W
USB-C (x2)	5/9/12/15/20V ⎓ 5A, 100W max. per port, total 200W
Car Outlet	12.6V ⎓ 10A, 126W max.
DC5521 Output (x2)	12.6V ⎓ 3A, 38W max. per port
Input Ports	
AC Charging	X-Stream Fast Charging 1,200W max.
AC Input Voltage	220V-240V~ 10A, 50Hz/60 Hz
Solar Charging	11-60V ⎓ 15A Max, 500W Max
Car Charger	Supports 12V/24V Battery, default 8A
Battery Info	
Cell Chemistry	LFP
Cycle Life	3,000 cycles to 80% + capacity

Protection Type	Over Voltage Protection, Overload Protection, Over Temperature Protection, Short Circuit Protection, Low Temperature Protection, Low Voltage Protection, Overcurrent Protection
Environmental Operating Temperatures	
Optimal Operating Temperature	20°C-30°C
Discharging Temperature	-10°C-45°C
Charging Temperature	0°C-45°C
Storage Temperature	-10°C-45°C (optimal: 20°C-30°C)
Add-ons (sold separately)	
DELTA 2 Smart Extra Battery	Supported
Smart Generator	Supported

1. **The car outlet shares power with the DC5521 output port, offering a maximum output of 126W.**
2. **Whether the product can be charged or discharged depends on the actual temperature of the battery pack.**

Safety Instructions

Usage

1. Do not use the product near a heat source, such as a fire source or a heating furnace.
2. Avoid contact with any liquid. Do not immerse the product in water or get it wet. Do not use the product in the rain or humid environments.
3. Do not use the product in an environment with strong static electricity/magnetic fields.
4. Do not disassemble the product in any way or pierce the product with sharp objects.
5. Avoid using wires or metal objects that may result in a short circuit.
6. Do not use unofficial components or accessories. If you need to replace any components or accessories, please visit official EcoFlow channels to check relevant information.
7. When using the product, please strictly follow the operating 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 forcibly lock the fan during use.
10. Please avoid impact, falls, or severe vibrations when using the product. In case of a severe external impact, turn off the power supply immediately and stop using the product. Ensure the product is well fastened during transportation to avoid vibrations and impacts.

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 "Disposal Guide". 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. Use a dry cloth to clean off dirt from the product ports.
13. Put the product on a flat surface to avoid damages caused by the product 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 combustible matter and people, and dispose of it in accordance with local laws and regulations.
14. Ensure that the product is kept out of reach of children and pets.
15. Store the product in a dry and ventilated place.
16. We recommended that you use moisture barrier bags in wet environments (for example, places by the sea or waterways) to prevent the product from getting soaked. If water is found inside the product, it must not be used or turned on again. Please take anti-electric shock measures before touching the product. Following this, place the product in a safe, waterproof and open area. Once complete contact EcoFlow Customer Service immediately.
17. This product is not recommended for powering medical emergency equipment related to personal safety, including but not limited to medical grade ventilators (hospital version CPAP: Continuous Positive Airway Pressure), artificial lungs (ECMO, Extracorporeal Membrane Please follow your doctor's instructions and consult with the manufacturer for restrictions on the use of the equipment. If used for general medical equipment, please be sure to monitor the power status to ensure that the power does not run out.
18. When in use, power supply products will generate electromagnetic fields, which are likely to affect the normal operation of medical implants or personal medical equipment such as pacemakers, cochlear implants, hearing aids, defibrillators etc. If these types of medical equipment are being used, please contact the manufacturer to inquire about any restrictions on the use of such equipment. These measures are fundamental to ensure a safe distance between the medical implants (for example, pacemakers, cochlear implants, hearing aids, defibrillators etc.) and this product while in use.
19. When the power supply is connected in normal mode to a refrigerator, power fluctuations may cause the power supply to automatically shut down. When connecting the power supply 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. This helps support a continuous power supply and ensures a safe and efficent power consumption state.

Operation of this equipment in a residential environment could cause radio interference.

Disposal Guide

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 cannot be recharged.

EcoFlow App

Control, monitor and customize your EcoFlow DELTA 2 from afar with the EcoFlow App.
Download here: **https://download.ecoflow.com/app**

Privacy policy

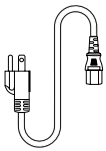
By using EcoFlow Products, Applications and Services, you consent to the EcoFlow Term of Use and Privacy Policy, which you can access via the “About” section of the “User” page on the EcoFlow App or on the official EcoFlow website at

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

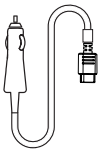
What’s in the Box

DELTA 2

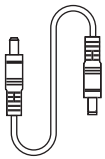
AC Charging Cable



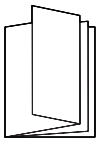
Car Charging Cable



DC5521 to DC5525 Cable

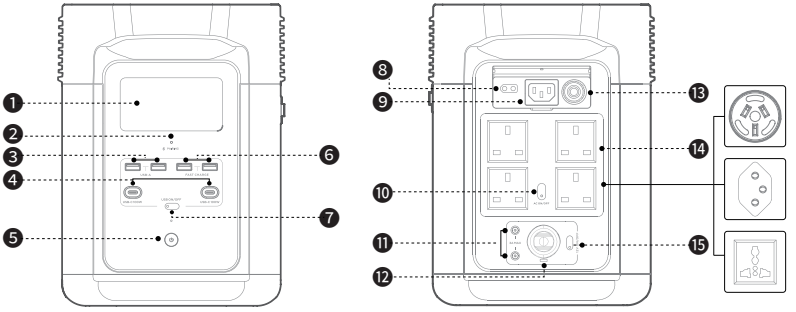


User Manual & Warranty Card



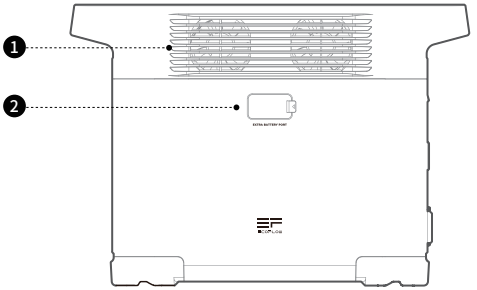
Product Details

Overview



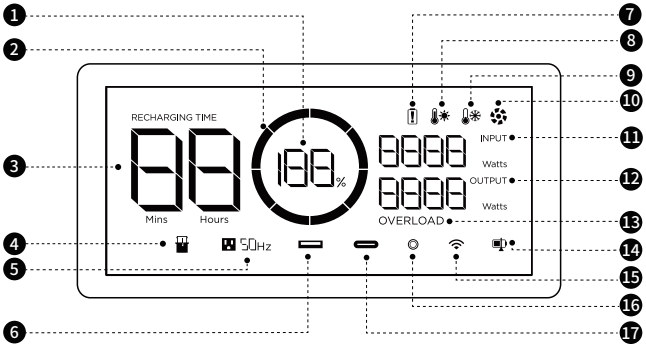
1. LCD screen
2. Bluetooth pairing indicator
3. USB-A output ports
4. USB-C output ports
5. Main power buutton
6. USB-A fast charging output port
7. USB power button
8. Solar/car charging input port
9. X-Stream charging input ports
10. AC power button
11. DC5521 output port
12. Car outlet
13. Overload protection switch
14. AC output sockets
15. 12V DC power button

The type of AC socket varies in different countries or regions, the picture above is for illustration only, please refer to the actual product.



1. Ventilation Fan
2. Extra Battery Port

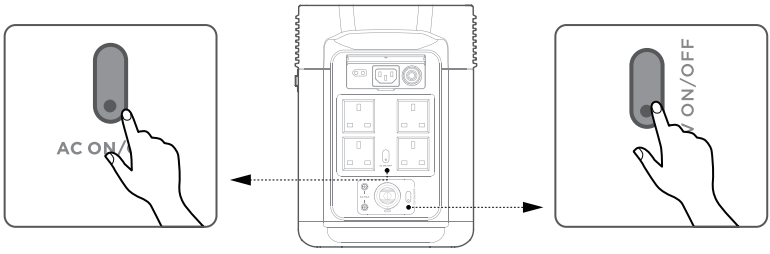
LCD Screen



1. Remaining battery percentage
2. Battery level indicator
3. Remaining charging/discharging time
4. Extra battery indicator
5. AC output
6. USB-A output
7. Battery failure warning
8. High temperature warning
9. Low temperature warning
10. Fan indicator
11. Input power
12. Output power
13. Overload warning
14. State of charge
15. Wi-Fi status
16. 12V DC output indicator
17. USB-C output

Icon	Name	State
	Remaining battery percentage	Charging: Rotating clockwise Fully charged: 100% Flat battery: Flashing
	Wi-Fi	Solid: Internet connection succeeded Off: Internet connection failed

Refer to "Troubleshooting" for details.

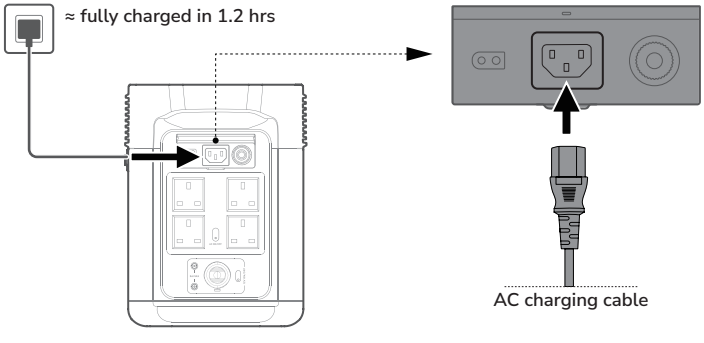


1. Make sure that the total power of all loaded devices is lower than that of the rated power.
2. After the USB power button is turned on, the product will not shut off automatically.
3. After the 12V DC output power button is turned on, the product will not shut off automatically.
4. After 12 hours without any load for the AC output ports, the AC power button will shut down automatically.

Charge DELTA 2

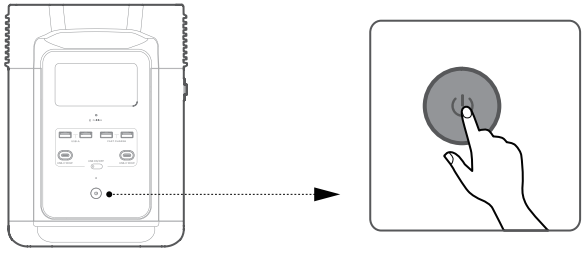
AC Charging

EcoFlow's X-Stream fast charging technology is specifically designed for AC charging. The AC charging speed can be adjusted via 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.



Power On/Off

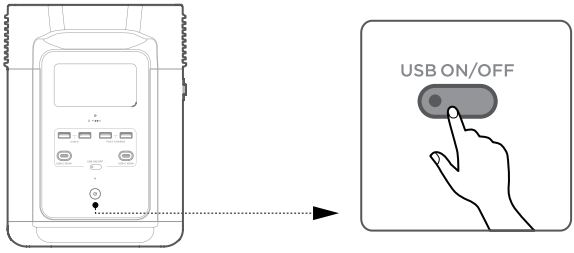
Press the main power button once to turn on the product, then the LCD screen lights up and the battery level indicator icon shows up; press and hold the main power button for at least 3 seconds to turn off the product.



1. After main power is turned on, press the main power button once to turn off the LCD screen.
2. If the product is not used for 5 minutes, it will enter sleep mode with the LCD screen shut off. When you start to use the product again, the LCD screen will turn on automatically.
3. The product defaults to 2 hours of standby time. With the output power buttons turned off and no other load for 2 hours, the product will shut off automatically. You can set the standby duration in the app.

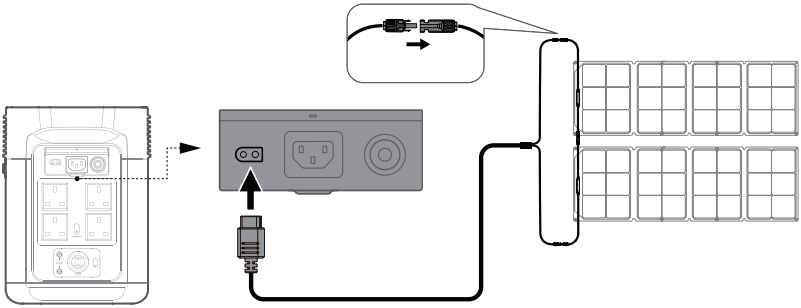
Charge Your Devices

After the product has been turned on, press “USB power button”, “12V DC power button” or “AC power button” once to turn on their corresponding USB/DC/AC ports or sockets; press again to turn them off.



Solar Charging

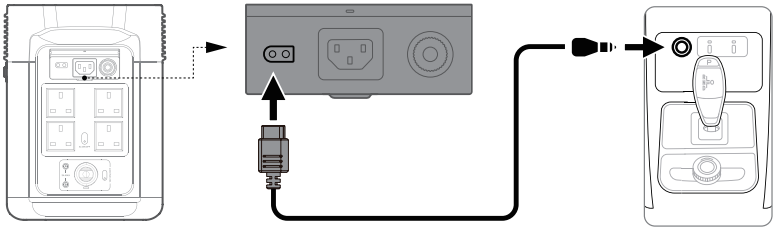
You can also connect solar panels as shown in the diagram to recharge the product.



1. Solar charging cable (MC4-XT60 adapter cable) and the solar panel are supplied separately.
2. When using an EcoFlow solar panel to charge the product, please follow the instructions that come with the solar panel.
3. Before connecting the solar panel, please ensure that the solar panel's output voltage is within 60V to avoid product damages.

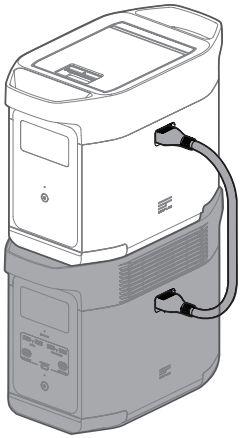
Car Charging

To avoid failure to start due to insufficient car battery, use the car charger after the vehicle is started. 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.



Smart Extra Battery

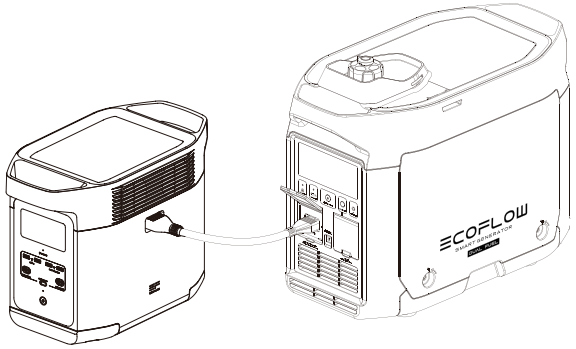
A single DELTA 2 can connect up to 1 Smart Extra Battery for additional capacity. Refer to the user manuals of the DELTA 2 Smart Extra Battery and Smart Generator for detailed instructions.



1. Turn off both the Smart Extra Battery and DELTA 2 before connecting or disconnecting them.
2. Before using, make sure both DELTA 2 and Smart Extra Battery display the extra battery icon on their screens.
3. Do not directly connect or remove the Smart Extra Battery during charging and discharging processes. If you need to connect or remove it midway, please turn off the product first.
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.

Smart Generator

You can also recharge DELTA 2 with the Smart Generator. Please check the Smart Generator manual for more information.



FAQ

1. **What battery does the product use?**
   High-quality LFP battery.

2. **What devices can the product's AC output port power?**
   With high rated power and 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 do 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 do I clean the product?**
   Gently wipe it with a dry, soft, clean cloth or paper towel.

6. **How do I store the product?**
   Before storing, please turn off the product first, and then store it in a dry and ventilated place at room temperature. Do not place it near water sources. For long-term storage, please discharge and recharge the product every three months to extend its battery life.

7. **Can I bring the product on a plane?**
   No.

Storage and Maintenance

1. Ideally, use and store the product in a place of between 20°C-30°C, and always keep it away from water, intense heat, and sharp objects. For an extended product lifespan, do not store it in places of temperatures above 45°C or below -10°C.

2. 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.

X-Boost and EPS

X-Boost

To avoid operation failure due to overload protection, the X-Boost feature will be automatically enabled when the total output exceeds the rated output power, which enables the product to power high wattage appliances at the rated output power.

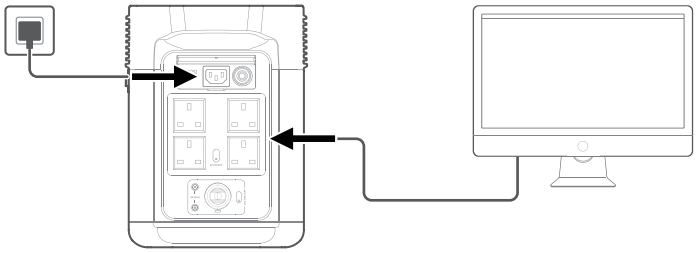
1. X-Boost is not available when the AC output is turned on in a recharging state (in bypass mode).
2. X-Boost is enabled by default. You can adjust it in the EcoFlow App.
3. X-Boost is not available for all electrical appliances; it's incompatible with appliances with strict voltage requirements. Appliances 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.

⚠ **Bypass mode: When the product is plugged into the power socket for recharging and connected to other devices at the same time, it cannot provide power to the devices if the AC power button is turned on, instead, the devices are powered by the grid.**

EPS (Emergency Power Supply)

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.**



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.
RECHARGING TIME (Flashing)	High Temperature Charging Protection	Charging will resume automatically once the battery cools down.
(Flashing)	High Temperature Discharging Protection	The power supply will resume automatically once the battery cools down.
RECHARGING TIME (Flashing)	Low Temperature Charging Protection	Charging will resume automatically once battery temperature rises above 5°C.
(Flashing)	Low Temperature Discharging Protection	The power supply will resume automatically once the battery temperature rises above -12°C.
50Hz OVERLOAD (Flashing)	AC Output Overload Protection	Normal operation will resume 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).
50Hz (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.
50Hz (Flashing)	AC Low Temperature Protection	Normal operation will resume automatically once 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.

ECOFLOW