


Contents


- About This Manual
- Tutorial Video
- Overview
- LCD Icons
- Power On/Off
- Charge Your Devices
  - AC Output Socket
  - USB-C/USB-A Output Port
  - DC Output Socket
- Charge Your Power Station
- X-Boost
- EPS
- Care and Maintenance
- Specifications
- EcoFlow App
- What's in the Box
- Accessories
- FAQ
- Safety Instructions
- Certification and compliance


FAQ | EcoFlow App | After-sales Policy | Community

# About This Manual

- This manual is applicable to **RIVER 2 Pro** and **RIVER 2 Pro 700** portable power stations.
- This manual may be revised without prior notice. If you are reading this manual in PDF format, please visit <https://manuals.ecoflow.com/product/river-2-pro-portable-power-station> for the latest updates and a better reading experience.
- The illustrations in this manual are based on the US version of the product and are intended for reference purposes only. Please refer to the actual product received.
- The availability of certain accessories and features described in this manual may vary depending on your country or region.

# Tutorial Video



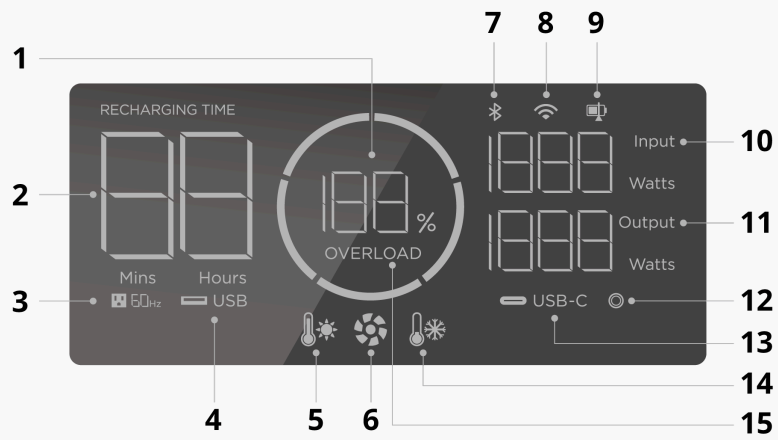

# Overview




| | | |
|---|---|---|
| 1 | USB-C port | Powers up devices or charges the product with a maximum input/output power of 100W |
| 2 | USB-A port | Powers up devices with a rated power ＜12W |
| 3 | Power indicator | Shows the working state of the product. Pulsing in power-on or standby mode; |
| 4 | Main power switch | Short press to turn on the product, long press for 3 seconds to turn off the product |
| 5 | AC output switch | Short press once to turn on/off the AC output socket |

| | | |
|---|---|---|
| 6 | AC output socket | Supports X-Boost feature and powers up devices with a rated power ＜800W |
| 7 | DC output switch | Short press once to turn on/off the DC output socket |
| 8 | DC5521 output port | Powers up devices with a rated power ＜37W |
| 9 | DC output port(cigarette lighter) | Powers up on-board appliances with a rated power ＜126W |
| 10 | LCD | Displays the real-time battery, input power, output power and other status of the product |
| 11 | X-Stream AC charging input port | Use the original AC charging cable for AC input (wall outlet supported) |
| 12 | DC input port | Support car/solar charging input |
| 13 | Fan | Do not block the vent to avoid poor heat dissipation |

## LCD Icons




| | | | |
|---|---|---|---|
| 1 | Remaining battery | 9 | Discharge/Recharge level limitation |
| 2 | Remaining charge/discharge time | 10 | Input power |
| 3 | AC output | 11 | Output power |
| 4 | USB-A output | 12 | Car output |
| 5 | High temperature warning | 13 | USB-C output |
| 6 | Fan indicator | 14 | Low Temperature warning |
| 7 | Bluetooth connection status | 15 | Overload Warning |
| 8 | Wi-Fi status | | |

- Refer to "Troubleshooting" for details.

## Power On/Off

- **Short press for power-on**

Press the main power button again to turn off the LCD screen. If the product is not used for 5 minutes, it will enter hibernation and the LCD screen will turn off.




- **Long press for power-off**

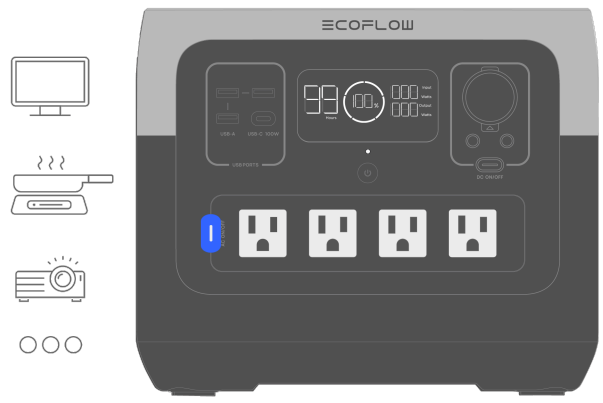
xWhen the product is charging, it can't be turned off by long pressing the main power button unless the charging cable is unplugged first.



# Charge Your Devices

## AC Output Socket

- Maximum output power 800W
- Press the **AC output switch** once to turn on AC output socket; press again to turn it off.



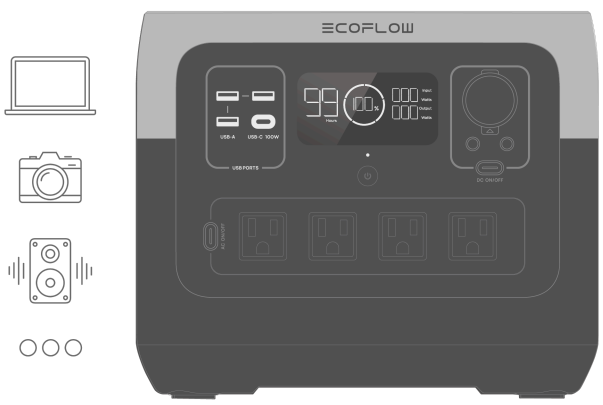

## USB-C/USB-A Output Port

### USB-A Output Port

- Maximum output power 12W
- The USB-A output ports are available once the product is turned on.

### USB-C Input/Output Port

- Maximum input/output power 100W
- The USB-C output port is available once the product is turned on.

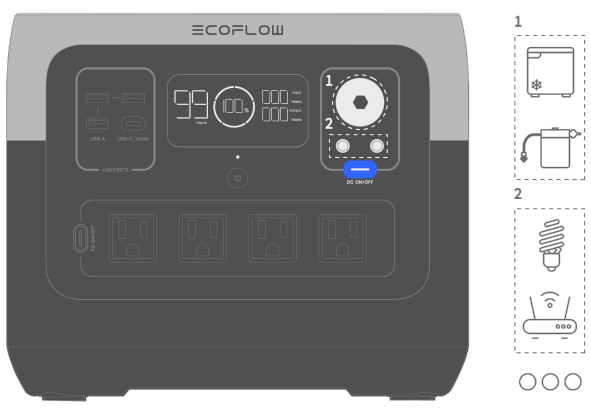



## DC Output Socket

- Maximum output power 126W
- Press the **DC output switch** once to turn on DC output socket (cigarette lighter); press again to turn it off.

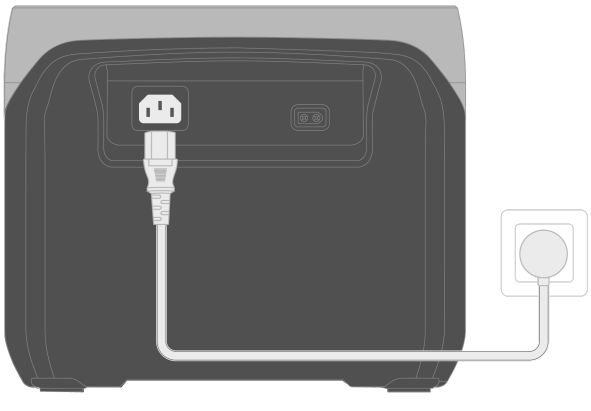
### DC5521 Output Port

- Maximum output power 37W




# Charge Your Power Station

- **Fully charged in 1.17 hours**
- **940W max (low-voltage areas, 100V-120V) / 870W max (high-voltage areas, 220V-240V)**

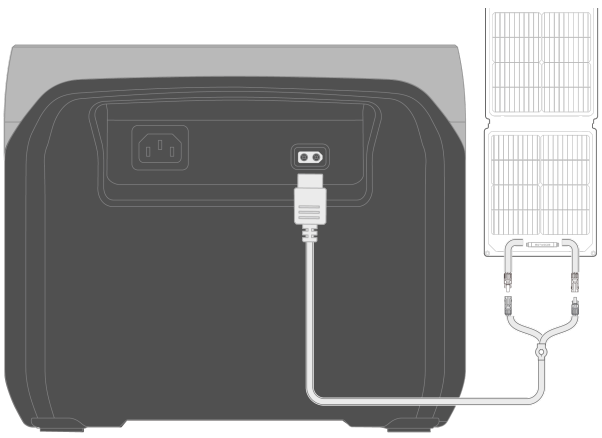


Please use the **AC charging cable** included in the package and plug the cable directly into a wall outlet instead of an extension socket.

It's recommended that you use a power socket with a capacity of more than 10A and ensure that the working current of the socket is constantly greater than 10A.

## Solar Charging

- **220W max**
- **Fully charged in 4.5 - 9 hours**

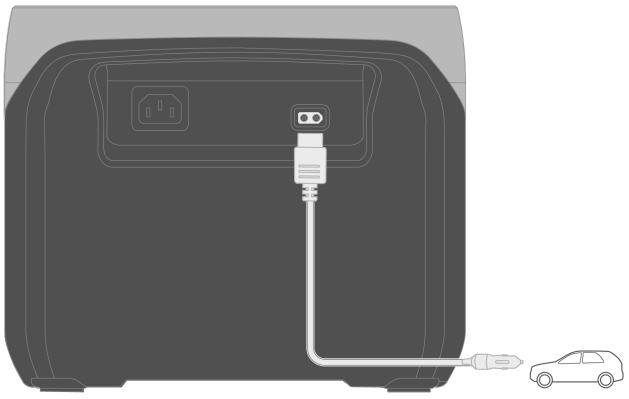


When using an EcoFlow solar panel to charge the product, connect them according to the instructions in the user manual.

Before connecting the solar panel, ensure that the output voltage of the solar panel is less than 50V to avoid product damage.

## Car Charging

- **100W max**
- **Fully charged in approximately 9 hours**

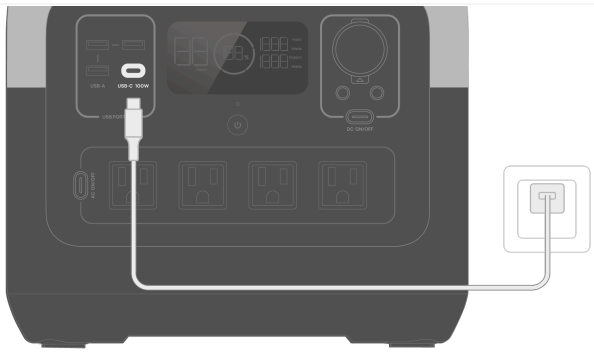


You can recharge the product through the car power outlet. The product supports 12V/24V car chargers and a maximum charging current of 8A. EcoFlow takes no responsibility for any loss or damage caused by failure to follow instructions.

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 car charger cable is securely connected to the cigarette lighter.

## USB-C Charging

- **100W max**
- **Fully charged in approximately 9 hours**



◎The USB-C charging cable (Type-C plug) and adapter are not included.

## X-Boost

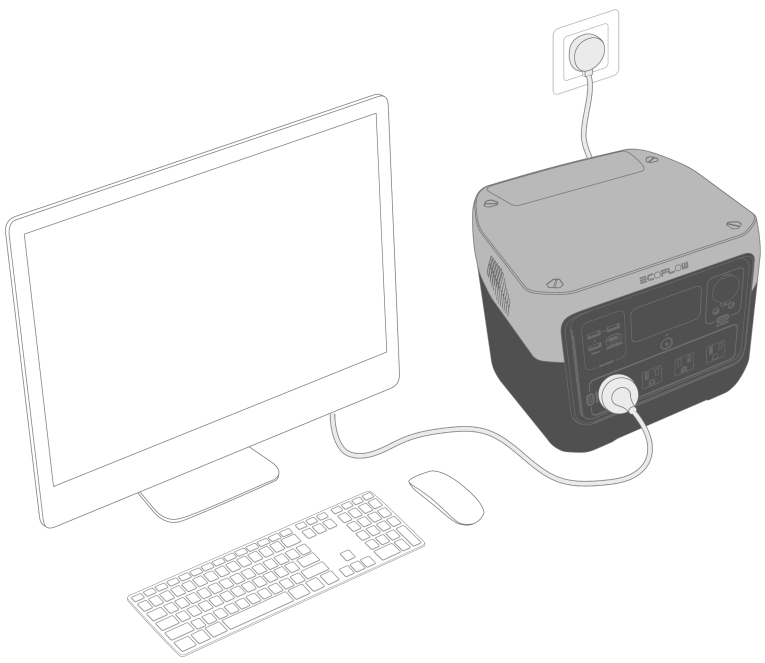
The product supports X-Boost. It can power devices rated at up to 1600W without incurring operation failure due to overload protection. Observe the following tips when using the X-Boost feature:

**1. The X-Boost feature is not suitable for appliances with voltage protection (such as precise instruments).**

**2. It is suitable for heating and motor-driven devices. Please conduct your own tests to check whether your devices support X-Boost.**

## EPS

The product supports **emergency power supply** (EPS). Please connect the grid power to the AC input port of the product through an AC cable, then power your device through the AC output port of the product (as figure below).



AC power will come from the grid instead of the power station in this situation (bypass mode). In case of a sudden blackout, the product can automatically switch to battery-powered supply mode within 30ms.

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1. As a basic UPS feature, it 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.
2. It's recommended that you power only one device (with maximum power <1600W for high voltage areas and 1000W for low voltage areas) at a time and avoid using multiple appliances at the same time to avoid triggering overload protection. EcoFlow takes no responsibility for any device failure or data loss caused by failure to follow instructions.

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## Care and Maintenance

1. For safety, please do not store the product in temperature higher than 45°C (113°F) or lower than -10°C (14°F) for a long time.
2. For long-term storage, please recharge the product every three months (firstly discharge it to 0%, then recharge it to 60%). The product will not be covered by the warranty if it is not charged or discharged for more than 6 months.
3. If the product has been idle for too long and the battery is severely low, it will enter a deep sleep protection mode. In such case, please charge the product before using it again.

## Specifications

| **GENERAL** | |
|---|---|
| Model | EFR620 (RIVER 2 Pro)<br>EFR617 (RIVER 2 Pro 700) |
| Weight | Approximately 8.25 kg (18.2 lbs) |
| Dimensions | 270 × 260 × 226 mm<br>(10.6 × 10.2 × 8.9 inches) |

| | |
|---|---|
| Capacity | 768Wh, 40Ah⎓19.2V (RIVER 2 Pro)<br>716Wh, 37.3Ah⎓19.2V (RIVER 2 Pro 700) |
| Wi-Fi (2.4G) | Frequency range:<br>20M: 2412-2462MHz/40M: 2422-2452MHz (US)<br>20M: 2412-2472MHz/40M: 2422-2462MHz (EU/AU/ZA)<br>Maximum output power:<br>0.071W (US)<br>16.54dBm (EU/AU/ZA) |
| Bluetooth | Frequency range:<br>2402-2480MHz (US)<br>2402-2480MHz (EU/AU/ZA)<br>Maximum output power:<br>0.005W (US) / 4.71dBm (EU/AU/ZA) |
| **INPUT** | |
| AC Input | 100V-120V~50Hz/60Hz, 10A Max (US)<br>220V-240V~50Hz/60Hz, 10A Max (EU/AU/ZA) |
| Car Charging Input | 12V/24V⎓8A, 100W Max |
| Solar Charging Input | 11-50V⎓13A, 220W Max |
| USB-C Input | 5/9/12/15/20V⎓5A, 100W Max |
| **OUTPUT** | |
| AC Output | Pure sine wave, 800W total (1600W Peak)<br>120V~50Hz/60Hz (US)<br>230V~50Hz/60Hz (EU/ZA)<br>240V~50Hz/60Hz (AU) |
| DC Output | 12.6V⎓10A, 126W Max |
| USB-C Output | 5/9/12/15/20V⎓5A, 100W Max |
| USB-A Output | 5V⎓2.4A 12W Max per port |
| **BATTERY** | |
| Cell Material | LFP battery |
| Cycle Life | 80%+ capacity after 3000 cycles |
| **OPERATING TEMPERATURE** | |
| Ambient Temperature for Discharging | -10°C~45°C(14°F to 113°F) |
| Ambient Temperature for Charging | 0°C~45°C(32°F to 113°F) |
| Ambient Temperature for Storage | -10°C~45°C (optimal: 20°C~30°C)<br>14°F to 113°F (optimal: 68°F to 86°F) |

## EcoFlow App

Control, monitor and customize your EcoFlow product from afar with the EcoFlow App.

See how to connect →

## What's in the Box




1. RIVER 2 Pro/RIVER 2 Pro 700 portable power station
2. AC charging cable
3. Manuals & Warranty card

- **The types of AC sockets and AC charging cables vary in different countries or regions. Please refer to the actual product.**

## Accessories

# FAQ

### 1. What devices can the product's AC output socket power?

The rated power of the product is 500W and the peak power is 1000W. With the X-Boost feature, the product's AC output sockets can power devices rated at 1000W or below.
It's recommended that you confirm the power of devices before use, and ensure that the sum power of all loaded devices is less than the rated power.

### 2. How do I know how long the product can 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.

### 3. Can I take the product on a plane?

No.

### 4. Can I switch the frequency of the product?

We recommend that you do not switch the frequency in most cases. If you need to switch the AC frequency due to special circumstances, please turn on the AC power, and then press and hold the AC output switch for 10 seconds or use the app to switch frequency.

***Still not solve your problem? Please click here for more information.***

# Safety Instructions

**WARNING**

When using this product, the following precautions should be adhered to:

**Usage>**

1. Do not use the product near a heat source, such as a fire source or a heating furnace.
2. 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.
3. If this product accidentally catches fire, we recommend that you use the fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and carbon dioxide fire extinguishers.
4. Do not allow this product to come into contact with any liquid. Do not use this product in the rain or high humidity.
5. It is recommended that you use moisture barrier bags in humid environments (for example, places by the sea or waterways) to prevent the product from getting wet.
6. If water is found inside the product, or the product is accidentally dropped into water, it must not be used or turned on again. Please place it in a safe open area, and stay away from it until it is completely dry. Please do not approach the product before it is dry. Please take anti-electric shock measures before touching the product. The dried product should not be used or discarded at will. Please properly dispose of it after contacting Customer Service.
7. Use a dry cloth to clean dirt from the product ports.
8. Do not use this product in an environment with strong static electricity or strong magnetic fields.
9. Do not stack any heavy objects on the product.
10. Store the product in a dry and ventilated place.
11. Keep this product out of reach of children and pets.
12. Do not place the battery in a low air pressure environment, as this may cause flammable liquids to leak or even an explosion.
13. Do not disassemble or puncture this product in any way with sharp objects.
14. Do not forcibly block the fan during use.
15. Do not touch the product port with wires or other metal objects to avoid short circuits or other risks.
16. When using or transporting this product, please avoid impact, falls and violent vibrations. In case of a severe impact, stop using this product immediately and turn off the power.
17. Do not use unofficial components or accessories as this will void the warranty. Consult official EcoFlow channels if you need to replace any component or accessory.
18. This product is not recommended for powering medical emergency equipment related to personal safety, including but not limited to medical grade ventilators (hospital CPAP: Continuous Positive Airway Pressure) or artificial lungs (ECMO: Extracorporeal Membrane Oxygenation). The product can be used to power a home ventilator (home CPAP) that does not have to be continuously monitored by professionals. Please follow your doctor's instructions and consult with the manufacturer for restrictions on the use of the equipment. If it is used for general medical equipment, please be sure to monitor the power status to ensure that the power does not run out.
19. When in use, power supply products will inevitably 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 medical implants (for example, pacemakers, cochlear implants, hearing aids, defibrillators, etc.) and this product while in use.
20. When the power supply is connected in the normal mode to a refrigerator, the power supply may be automatically shut down due to the power fluctuation property of the refrigerator. If the refrigerator stores medicines, vaccines or other high-value items, it is highly recommended that you set the AC output to "Never Turn Off" through the EcoFlow app when connecting the power supply product to ensure a continuous power supply. Users should pay attention to the power consumption of the power supply.
21. Do not put fingers or hands into the product.
22. To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
23. Do not operate the power pack with a damaged cord, plug or output cable.
24. To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed service.
25. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
26. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
27. Users should not place the product on the floor, or at a height less than 457 mm (18 inches) above the floor, when in a repair facility.

**Disposal>**

1. Whenever possible, please completely discharge the battery of this product before placing the product in the designated battery recycling bin. This product contains batteries. Batteries are hazardous chemicals and should not be disposed of in ordinary trash cans. For details, please follow local laws and regulations on battery recycling and disposal.
2. If the battery cannot be completely discharged due to the failure of the product itself, please do not dispose of the battery directly in the battery recycling bin, and contact a professional battery recycling company for further processing.
3. The battery will not start after over-discharge. Please dispose of it.

# Certification and compliance



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



Hereby, EcoFlow Inc. declares that the radio equipment type portable power station is in compliance with Directives 2014/53/EU, 2011/65/EU(RoHS), (EU) 2015/863(RoHS). The full text of the EU declaration of conformity is available at the following Internet address:

**EU**

http://www.ecoflow.com/eu/eu-compliance

**UK**

http://www.ecoflow.com/uk/eu-compliance

**DE**

http://www.ecoflow.com/de/eu-compliance

**FR**

http://www.ecoflow.com/fr/eu-compliance

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