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› EF ECOFLOW Portable Power Station RIVER 2 Max User Manual

EF ECOFLOW EFR610

User Manual

EF ECOFLOW RIVER 2 MAX PORTABLE POWER STATION

Model: EFR610

1. Introduction

The EF ECOFLOW RIVER 2 Max is a portable power station designed to provide reliable power for various applications, including outdoor camping, RV use, and home backup. Featuring a 512Wh LiFePO4 battery, it offers fast charging capabilities and a robust output of up to 1000W with X-Boost technology, making it suitable for powering a wide range of essential appliances.



Figure 1: Front view of the EF ECOFLOW RIVER 2 Max Portable Power Station.

2. What's Included

Upon unboxing your RIVER 2 Max, please verify that all the following components are present:

- RIVER 2 Max Portable Power Station
- AC Charging Cable
- Car Charging Cable
- User Manual (this document)

3. Product Overview

The RIVER 2 Max is equipped with multiple ports and an intuitive display to manage your power needs. Familiarize yourself with the layout for optimal use.

POWER UP TO 11 DEVICES

There's space for all your gear.

4 AC Outlets

1 USB-C Port

3 USB-A Ports

2 DC (5521) Outlets

1 Car Outlet



Figure 2: Overview of the RIVER 2 Max ports and display, demonstrating its ability to power up to 11 devices simultaneously.

Key Components:

- **AC Outlets:** Two 300W AC outlets (up to 1000W with X-Boost).
- **USB-C Port:** One 100W USB-C port for charging and input.
- **USB-A Ports:** Three USB-A ports for various devices.
- **DC (5521) Outlets:** Two DC outlets.

- **Car Outlet:** One 12V car power outlet.
- **LCD Display:** Shows battery level, input/output wattage, and remaining runtime.
- **Power Button:** For turning the unit on/off.



Figure 3: Dimensions of the EF ECOFLOW RIVER 2 Max, measuring 10.6 x 10.2 x 7.7 inches.

4. Setup

Before first use, it is recommended to fully charge your RIVER 2 Max. This ensures the battery is calibrated and ready for optimal performance.

1. **Unpack:** Carefully remove the power station and all accessories from the packaging.
2. **Initial Charge:** Connect the AC charging cable to the unit and a standard wall outlet. Allow the unit to charge until the display indicates 100%.
3. **Firmware Update (Optional):** For the best experience, download the EcoFlow app and check for any available firmware updates.

5. Charging the RIVER 2 Max

The RIVER 2 Max offers multiple convenient charging methods to ensure you always have power when you need it.



Figure 4: The RIVER 2 Max can be charged using solar panels or a car charger.

- **AC Wall Outlet (X-Stream Fast Charging):** Fully recharge the unit in approximately 1 hour using a standard AC wall outlet. This is the fastest charging method.

0-100% RECHARGE IN ONLY 1 HOUR

1 hrs

6X faster

RIVER 2 Max Fast charge

6-9 hrs

Others Normal charging



Figure 5: The RIVER 2 Max recharges from 0-100% in just 1 hour via AC input.

- **Solar Charging:** Connect compatible solar panels (up to 220W input) to recharge the RIVER 2 Max in as fast as 2.3 hours under optimal sunlight conditions.
- **Car Charging:** Use the included car charging cable to recharge the unit from your vehicle's 12V cigarette lighter port.
- **USB-C Charging:** The 100W USB-C port also supports input charging, providing a convenient option when other methods are unavailable.

BUILT TO LAST FOR 10 YEARS

With LFP battery chemistry at its core, charge and empty RIVER 2 Max over 3000 times before its capacity drops to 80%. That's pretty much 10 years of regular use.

3000+ Cycles **5-Year** Service



Figure 6: Convenient USB-C charging for the RIVER 2 Max.

6. Operating the RIVER 2 Max

The RIVER 2 Max is designed for ease of use, allowing you to power various devices efficiently.

- **Turning On/Off:** Press and hold the main power button to turn the unit on or off.
- **Connecting Devices:** Plug your appliances into the appropriate AC, USB, or DC ports. Ensure the total wattage of connected devices does not exceed the unit's output capacity.
- **X-Boost Feature:** The X-Boost mode allows the RIVER 2 Max to power high-wattage appliances (up to 1000W) that typically exceed its rated output. This is achieved by lowering the voltage and current, which may result in reduced performance for some devices.

LIGHT AND PORTABLE

Only **13.3**lbs



Figure 7: The RIVER 2 Max providing power for various situations, demonstrating its 1000W X-Boost output.

- **EPS Auto-Switch:** The Emergency Power Supply (EPS) function allows the RIVER 2 Max to act as an uninterruptible power supply. When connected to an AC outlet, it passes power through to connected devices. If grid power fails, it automatically switches to battery power within 30ms, ensuring continuous operation for critical appliances like CPAP machines, fish tanks, or routers.



Figure 8: The RIVER 2 Max's EPS auto-switch function ensures power continuity during outages.

7. Battery Technology and Lifespan

The RIVER 2 Max utilizes advanced LiFePO4 battery cells, known for their durability and long cycle life.

- **Extended Lifespan:** The LiFePO4 battery can be used and recharged over 3000 times before its capacity drops to 80%, equating to approximately 10 years of regular use.
- **Advanced BMS Protection:** The integrated Battery Management System (BMS) continuously monitors voltage, current, and temperature, providing 7 protective features to extend the battery's life and ensure safe operation.

POWER FOR ANY SITUATION



Phone
(10W)

41 charges



Refrigerator
(120Wh)

3 hrs



Blender
(500W)

1 hr



Rice Cooker
(1000W)

0.4 hrs

X-BOOST
1000W
output



Figure 9: The RIVER 2 Max is built to last with its durable LiFePO4 battery, offering 3000+ cycles and a 5-year service.

8. EcoFlow App Control

Enhance your experience by connecting your RIVER 2 Max to the EcoFlow mobile application. The app allows you to control and monitor your power station remotely.

- **Remote Monitoring:** View real-time charging levels, input/output wattage, and remaining runtime from your smartphone.
- **Custom Settings:** Adjust various settings, including charging speed and X-Boost mode, directly from the app.

LIGHTWEIGHT AT ONLY 13.3 LBS

With a compact portable design, RIVER 2 Max is ready to power all your outdoorsy escapades.



Figure 10: Control and monitor your RIVER 2 Max using the EcoFlow App.

9. Portability and Use Cases

Weighing only 13.3 lbs, the RIVER 2 Max is highly portable, making it an ideal power solution for various scenarios.

<30MS EPS AUTO-SWITCH

With a switchover speed of less than 30ms, you won't even know the power was down. Use RIVER 2 Max as an emergency power supply for overnight outages to keep appliances running.

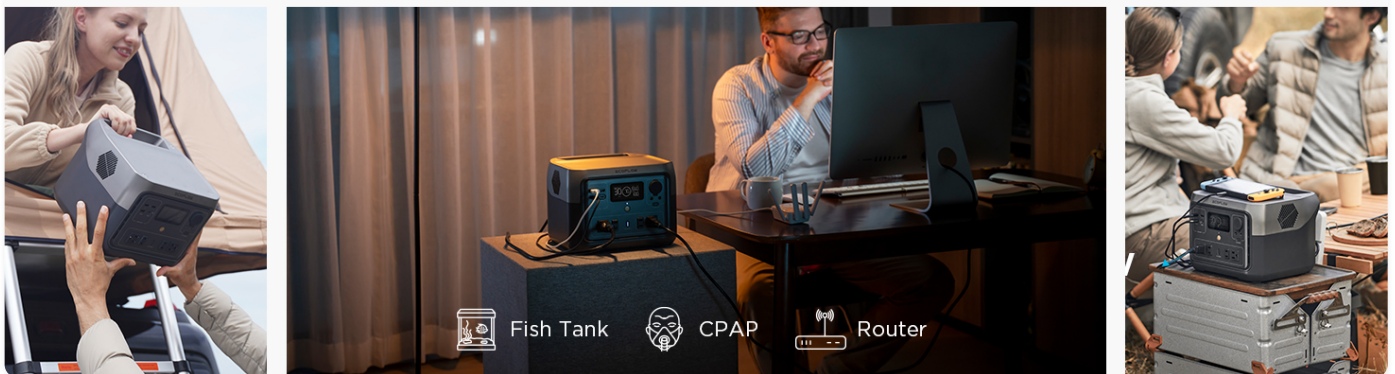


Figure 11: The lightweight design of the RIVER 2 Max makes it easy to transport.

- **Outdoor Adventures:** Perfect for camping, RV trips, tailgating, and other off-grid activities. Power lights, mini-fridges, drones, and electronic devices.
- **Emergency Home Backup:** Provides essential power during outages for critical appliances like refrigerators, lights, and communication devices.



Figure 12: The RIVER 2 Max is versatile for both outdoor power and emergency home backup.

10. Specifications

Detailed technical specifications for the EF ECOFLOW RIVER 2 Max Portable Power Station:

Feature	Specification
Product Dimensions	10.6 x 10.2 x 7.7 inches
Item Weight	13.42 pounds
Model Number	EFR610
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Capacity	512Wh
AC Output	500W (Pure Sine Wave, 1000W X-Boost)
AC Input (Charging)	660W Max (X-Stream Fast Charging)
Solar Input	220W Max
USB-C Output/Input	100W Max
DC Output	12.6V, 3A (DC5521 x2)
Car Power Output	12.6V, 10A
Color	Black
Voltage	120 Volts (AC)

11. Troubleshooting

If you encounter issues with your RIVER 2 Max, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. If completely depleted, connect to AC power for a few minutes before attempting to power on.

- **No Output from Ports:** Check if the specific output ports (AC, DC, USB) are enabled. Some models require activation via a button or the app. Verify that the connected device is within the power station's output limits.
- **"OVERLOAD" Message:** This indicates that the connected device is drawing more power than the unit can safely provide, even with X-Boost. Disconnect the device immediately. Try a lower-wattage device or ensure X-Boost is enabled if applicable.
- **Slow Charging:** Ensure you are using the correct charging cable and power source. For AC charging, verify the wall outlet is functioning correctly. For solar charging, ensure panels are clean, unobstructed, and optimally angled towards the sun.
- **App Connectivity Issues:** Ensure Bluetooth and/or Wi-Fi are enabled on your phone. Try restarting the app and the power station. If issues persist, refer to the app's help section or EcoFlow support.

12. Maintenance

Proper maintenance will extend the lifespan and ensure the continued performance of your RIVER 2 Max.

- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, maintain the battery charge between 30% and 80% and recharge every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials. Keep ventilation openings clear of dust and debris.
- **Battery Health:** Avoid fully discharging the battery frequently. While LiFePO4 batteries are robust, maintaining a charge above 0% is beneficial for long-term health.
- **Avoid Extreme Conditions:** Do not expose the unit to water, high humidity, or corrosive environments. Operate within the recommended temperature range.

13. Warranty and Support

The EF ECOFLOW RIVER 2 Max comes with a comprehensive warranty and dedicated customer support.

- **Warranty:** The product includes a 5-year service warranty, covering manufacturing defects and ensuring long-term reliability.
- **User Manual (PDF):** For a downloadable version of the user manual, please visit the official EcoFlow website or refer to the link provided with your purchase: [User Manual \(PDF\)](#).
- **Customer Support:** For further assistance, technical support, or warranty claims, please visit the official EF ECOFLOW Store or contact their customer service directly. You can find more information at the [EF ECOFLOW Store on Amazon](#).

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