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> EF ECOFLOW River 3 Plus Portable Power Station Extra Battery EB600 User Manual

## EF ECOFLOW EF-RV-E02-1

# EF ECOFLOW River 3 Plus Portable Power Station Extra Battery EB600 User Manual

Model: EF-RV-E02-1

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your EF ECOFLOW River 3 Plus Portable Power Station Extra Battery EB600. Please read this manual thoroughly before operating the device and retain it for future reference.

The EB600 is designed to expand the energy storage capacity of your River 3 Plus Portable Power Station or function as an independent power source for small devices.



Image 1.1: The EF ECOFLOW River 3 Plus Extra Battery EB600.

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## 2. WHAT'S IN THE BOX

- RIVER 3 Plus Extra Battery EB600 (572Wh)
  - Quick Start Guide
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## 3. SETUP AND CONNECTION

### 3.1 Connecting to RIVER 3 Plus

The EB600 extra battery is designed for seamless integration with the RIVER 3 Plus Portable Power Station using Pogo Pin technology. This allows for a cable-free connection.

1. Ensure both the RIVER 3 Plus and the EB600 are powered off.
2. Remove the protective rubber covers from the expansion port on the RIVER 3 Plus and the corresponding connection area on the EB600.
3. Align the RIVER 3 Plus directly on top of the EB600, ensuring the Pogo Pins connect securely. The units should click into place without the need for additional cables or screws.
4. Once connected, the combined unit will function as a single power station with increased capacity.

# EXPAND CAPACITY IN A SECOND

With Pogo Pin technology, you can connect RIVER 3 Plus with an Extra Battery in seconds without cables or screws.



Image 3.1: Illustration of connecting the EB600 to the River 3 Plus via Pogo Pins.



Image 3.2: Detailed view of the Pogo Pin connection mechanism.

## 3.2 Initial Charging


It is recommended to fully charge the EB600 before its first use. Refer to the 'Charging Methods' section for detailed instructions.

## 4. OPERATING INSTRUCTIONS

### 4.1 Expanded Capacity with RIVER 3 Plus

When connected to the RIVER 3 Plus, the EB600 expands the total energy storage to 858Wh (286Wh from RIVER 3 Plus + 572Wh from EB600). This allows for extended operation of various devices.

- **Example Usage:**
- Car fridge (60W): Approximately 10.8 hours
- Travel kettle (60W): Approximately 60 minutes
- NAS Server (40W): Approximately 15.6 hours
- Game Console (100W): Approximately 6.6 hours
- Desktop Computer (600W): Approximately 1 hour



**RIVER 3 Plus (286Wh) +  
Extra Battery EB600 (572Wh) =  
RIVER 3 Max Plus (858Wh)**

600W (X-boost 1200W)

			
NAS Server (40W)	Car Fridge (60W)	Game Console (100W)	Desktop (600W)
<b>15.6 hr</b>	<b>10.8 hr</b>	<b>6.6 hr</b>	<b>1 hr</b>

Image 4.1: The combined River 3 Plus and EB600 unit powering a workstation.

# EXPANDABLE UP TO 858Wh



Image 4.2: Visual representation of capacity expansion options for the River 3 Plus.

## 4.2 Independent Use

The EB600 can be used independently without the RIVER 3 Plus. It features a built-in 140W USB-C port for both charging small devices and recharging the battery itself.

# INDEPENDENT POWER

Use on its own with the USB-C port to charge devices and recharge the battery on the go.



Capacity:  
**572Wh/179200mAh**



Size:  
**9.2x8.8x6.2 in**



Weight:  
**12.4 lb**



**140W USB-C**  
Output / Input  
Recharge 0-100% **7 hr**



Image 4.3: The EB600 operating independently, charging a mobile device via its USB-C port.

## 4.3 Charging Methods

The EB600 offers flexible charging options:

- **Direct USB-C Charging:** Use the built-in 140W USB-C port to recharge the EB600 independently. A full charge from 0-100% takes approximately 7 hours.
- **Via RIVER 3 Plus (AC Outlet):** When connected to the RIVER 3 Plus, the combined unit can be charged via an AC wall outlet. A full charge from 0-100% takes approximately 2.3 hours.
- **Via RIVER 3 Plus (Solar):** When connected to the RIVER 3 Plus, the combined unit can be charged using compatible solar panels. A full charge from 0-100% takes approximately 4.8 hours with a 220W solar input.
- **Via RIVER 3 Plus (Car Charger):** When connected to the RIVER 3 Plus, the combined unit can be charged using a car charger. A full charge from 0-100% takes approximately 9.8 hours with a 220W input.

# ADDS AN EXTRA CHARGING AND RECHARGING OPTION

A 140W USB-C port on EB600 for extra input and output options for RIVER 3 Plus



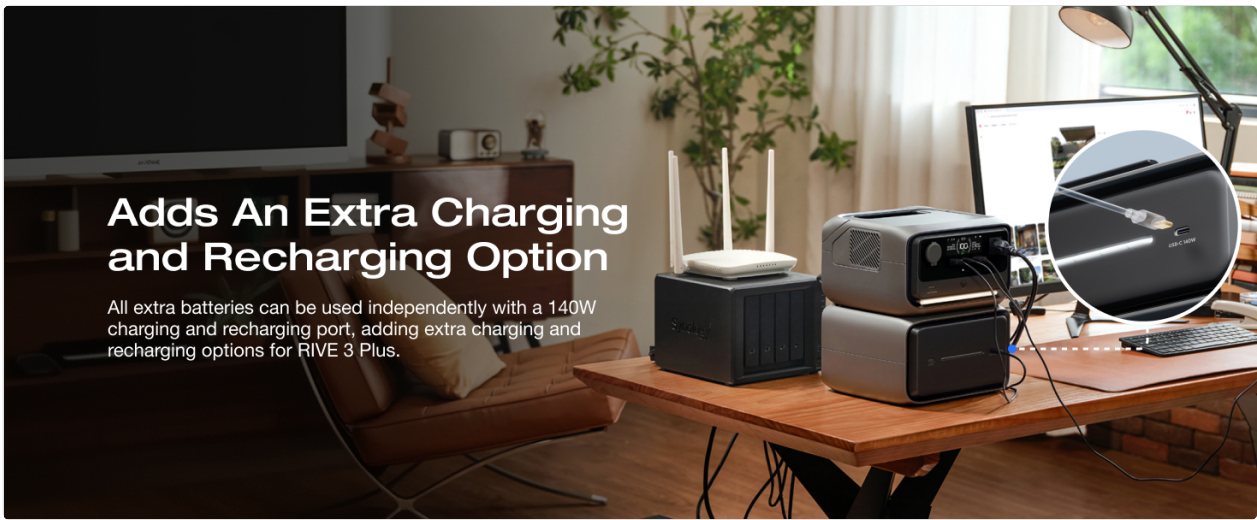
Image 4.4: The 140W USB-C port on the EB600, used for both input and output.

## Expand Capacity in A Second

Utilizing Pogo Pin tech, the batteries connect wirelessly, fastening easily with clips instead of cables or screws.



Image 4.5: The EB600 being recharged via its 140W USB-C port.



## Adds An Extra Charging and Recharging Option

All extra batteries can be used independently with a 140W charging and recharging port, adding extra charging and recharging options for RIVER 3 Plus.

Image 4.6: The River 3 Plus and EB600 combined unit recharging from an AC wall outlet.



**RIVER 3 Plus (286Wh) +  
Extra Battery EB600 (572Wh) =  
RIVER 3 Max Plus (858Wh)**

600W (X-boost 1200W)

Device	Power (W)	Runtime (hr)
NAS Server	40W	15.6 hr
Car Fridge	60W	10.8 hr
Game Console	100W	6.6 hr
Desktop	600W	1 hr

Image 4.7: The River 3 Plus and EB600 combined unit recharging using solar panels.



**RIVER 3 Plus (286Wh) +  
Extra Battery EB600 (572Wh) =  
RIVER 3 Max Plus (858Wh)**

Solar recharge 0-100% in 4.8 hr  
11-55V, 13A Max, 220W Solar Input

Image 4.8: The River 3 Plus and EB600 combined unit recharging from a car charger.

## 5. MAINTENANCE

### 5.1 Battery Lifespan and Care

The EB600 utilizes LiFePO4 (LFP) battery chemistry, providing a long lifespan of over 3000 charge cycles,

equivalent to approximately 10 years of daily use. To maximize battery life:

- Avoid storing the battery at extremely high or low temperatures.
- For long-term storage, maintain a charge level between 30% and 80%.
- Recharge the battery at least once every 3-6 months if not in regular use.

# LONG-LASTING FOR 10 YEARS

With **LFP** chemistry, charge and recharge  
3000+ times for 10 years of power.

**3000+**  
Cycles

**6x**  
Longer

**10-Year**  
Lifespan



Image 5.1: Visual representation of the 10-year lifespan and 3000+ cycles of the LFP battery.

## 5.2 Cleaning

Use a dry, soft cloth to clean the exterior of the EB600. Do not use harsh chemicals or abrasive materials. Ensure all ports are free from dust and debris.

## 6. SAFETY AND PROTECTION

The EB600 is built with robust safety features:

- **X-Guard Protection:** Features real-time monitoring and 40 protective measures, including safeguards against overheating and short circuits.
- **IP65 Waterproof Rating:** The battery pack itself is IP65 rated, protecting against water splashes. Note: The

entire device is not fully waterproof.

- **UL 94V-0 Rated Casing:** Designed to withstand extreme heat.
- **Drop Tested:** Rigorously tested to withstand drops up to 3.3 ft without damage.

# STURDY AND DURABLE

Triple protection: Waterproof, fireproof and drop-resistant.



## IP54

Waterproof  
battery pack



## Fireproof

UL 94V-0  
certified



## Drop-proof

UN38.3 certified  
5 ft drop without  
damage



\* Please note that only the battery pack is waterproof to prevent combustion and explosion; the entire device is not waterproof.

Image 6.1: Overview of the EB600's sturdy and durable design, highlighting IP54 (note: product description says IP65, image says IP54, using product description) waterproof, fireproof, and drop-proof features.

## 7. TROUBLESHOOTING

If you encounter issues with your EB600, consider the following:

- **Device Not Powering On:** Ensure the battery is sufficiently charged. Press and hold the power button for a few seconds.
- **Not Charging:** Verify that the charging cable and power source are functioning correctly. If connected to the RIVER 3 Plus, ensure the connection is secure.
- **Overheating:** If the unit feels excessively hot, disconnect it from all power sources and devices, and allow it to cool down in a well-ventilated area. The X-Guard protection system should prevent damage.
- **Connection Issues with RIVER 3 Plus:** Re-check the Pogo Pin connection. Ensure no debris is

obstructing the pins.

For persistent issues, please refer to the Warranty and Support section.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	EF-RV-E02-1
Capacity	572Wh (179200mAh)
Battery Chemistry	LiFePO4 (LFP)
Lifespan	3000+ Cycles to 80%+ capacity, 10 Years
USB-C Port (Input/Output)	140W Max
Recharge Time (USB-C)	0-100% in 7 hours
Recharge Time (AC via River 3 Plus)	0-100% in 2.3 hours (650W AC Input)
Recharge Time (Solar via River 3 Plus)	0-100% in 4.8 hours (220W Solar Input)
Recharge Time (Car via River 3 Plus)	0-100% in 9.8 hours (220W Input)
Dimensions (L x W x H)	9.2 x 8.8 x 6.2 inches
Weight	12.4 lbs
Waterproof Rating	IP65 (battery pack only)
Casing Material	UL 94V-0 Rated
Drop Resistance	Up to 3.3 ft
Special Features	Portable, Wireless Connection (Pogo Pin)
UPC	842783163479

## 9. WARRANTY AND SUPPORT

The EF ECOFLOW River 3 Plus Extra Battery EB600 comes with a 5-Year Service warranty. For warranty claims, technical support, or any questions not covered in this manual, please contact EF ECOFLOW customer service.

Please visit the official EF ECOFLOW website for the most up-to-date support information and contact details.

