EF ECOFLOW ZBrackets-SP

EF ECOFLOW Solar Panel Mounting Z Brackets Instruction Manual

Model: ZBrackets-SP | Brand: EF ECOFLOW

1. Introduction

Thank you for choosing EF ECOFLOW Solar Panel Mounting Z Brackets. These brackets are designed to provide a secure and stable mounting solution for EF ECOFLOW 100W rigid solar panels, and can be used for 400W flat stands (requiring two sets). Constructed from lightweight aluminum, these Z brackets offer durability and ease of installation on various surfaces such as roofs, walls, recreational vehicles (RVs), and boats.

2. Package Contents

Each set of EF ECOFLOW Solar Panel Mounting Z Brackets typically includes the following components:

- Z-shaped aluminum brackets (4 pieces per set)
- Mounting hardware (bolts, nuts, washers, self-tapping screws)

Note: The exact quantity of hardware may vary based on the specific kit purchased (e.g., 100W flat stand set vs. 400W flat stand set). Ensure all components are present before beginning installation.

3. Setup and Installation

Proper installation is crucial for the stability and longevity of your solar panel system. Follow these steps carefully.

3.1 Tools Required

- Drill
- Drill bits appropriate for your mounting surface
- Wrench or socket set
- Measuring tape
- Marking tool (pencil/marker)
- Sealant (for roof/wall installations to prevent leaks)

3.2 Installation Steps

1. **Prepare the Mounting Surface:** Choose a location that receives maximum sunlight and is structurally sound to support the weight of the solar panel and brackets. Clean the surface thoroughly.
2. **Position the Solar Panel:** Place your solar panel on the desired mounting surface. Determine the optimal placement for the Z brackets, typically one at each corner of the solar panel frame. Ensure the panel is level and oriented correctly.
3. **Mark Drilling Locations:** Hold a Z bracket against the solar panel frame and the mounting surface. Use a marking tool to mark the positions for drilling holes on both the solar panel frame and the mounting surface. Repeat for all four brackets.



Figure 1: Angled view of a single EF ECOFLOW Z Bracket, showing the mounting holes and design.

4. **Drill Pilot Holes:** Carefully drill pilot holes at the marked locations. For the solar panel frame, ensure the drill bit size is appropriate for the provided bolts. For the mounting surface, use a drill bit suitable for the self-tapping screws or bolts you intend to use.

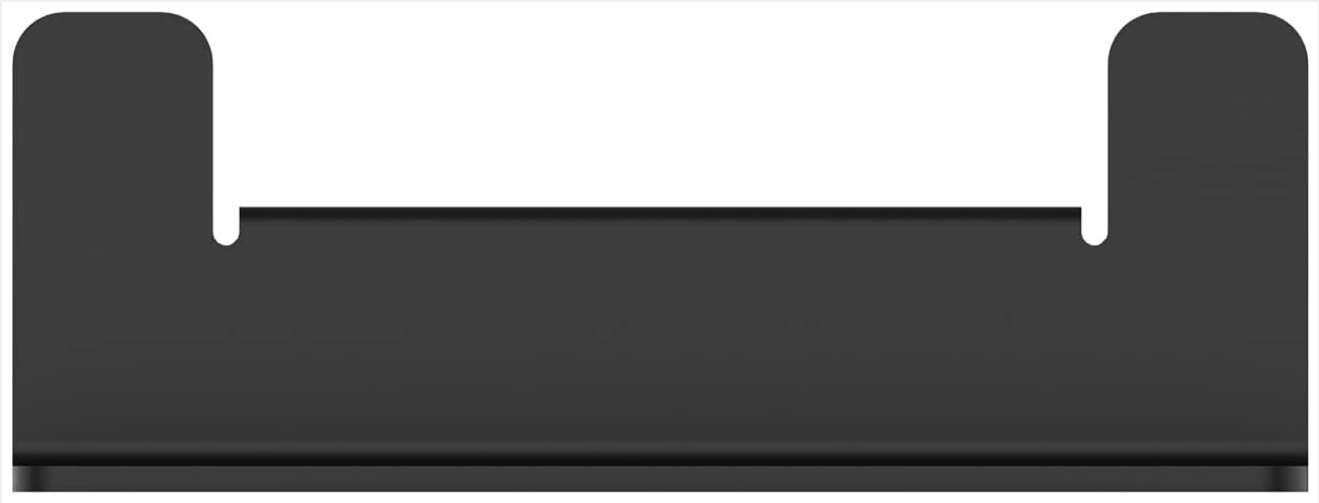


Figure 2: Top-down view of an EF ECOFLOW Z Bracket, highlighting the slotted hole for panel attachment and the base holes for surface mounting.

5. **Attach Brackets to Solar Panel:** Secure the Z brackets to the solar panel frame using the shorter bolts, washers, and nuts. Do not overtighten initially, allow for minor adjustments.
6. **Mount Solar Panel to Surface:** Carefully lift the solar panel with the attached brackets onto the prepared mounting surface. Align the holes on the bracket bases with the pilot holes on the surface.

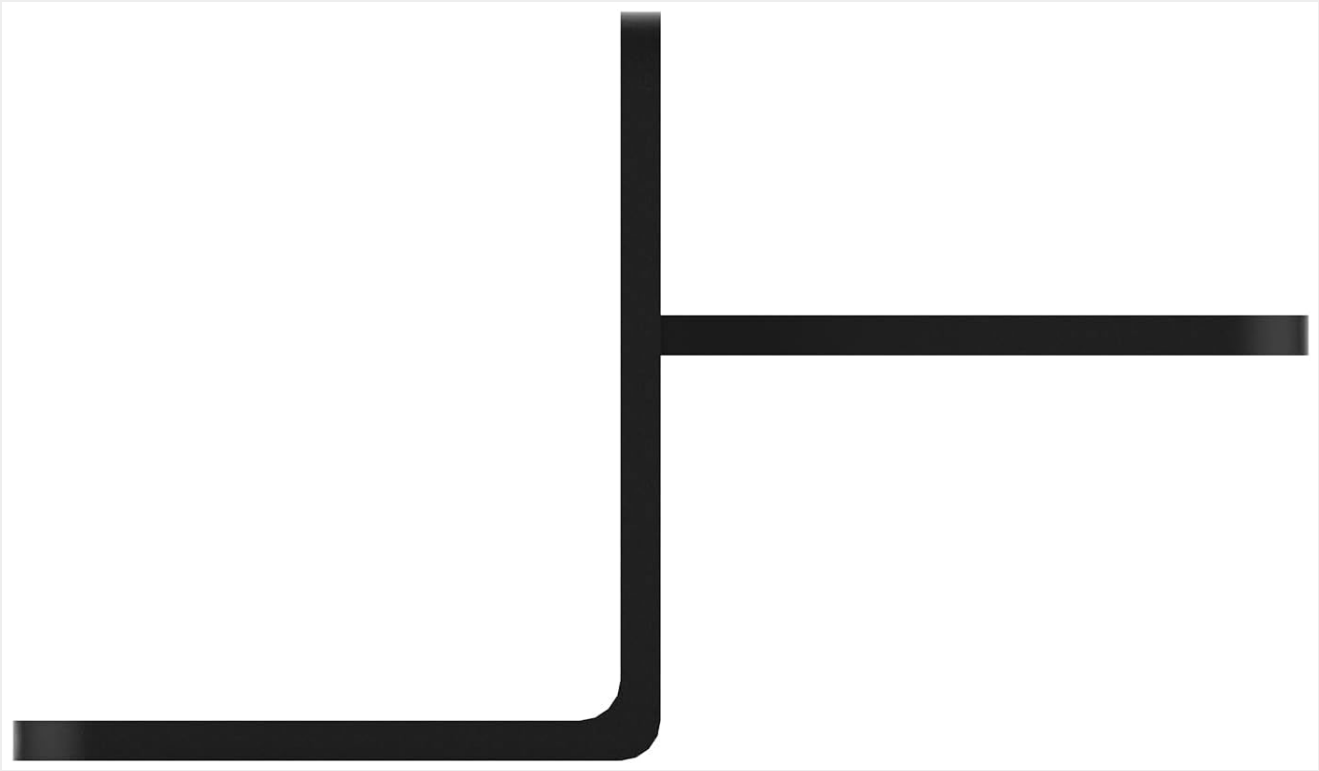


Figure 3: Side view of an EF ECOFLOW Z Bracket, illustrating its profile for secure panel elevation and mounting.

7. **Secure Brackets to Surface:** Use the self-tapping screws or appropriate bolts to firmly attach the Z brackets to the mounting surface. For roof or wall installations, apply a weather-resistant sealant around the screw heads to prevent water intrusion.
8. **Final Tightening:** Once all brackets are in place and aligned, fully tighten all bolts and screws. Ensure the solar panel is securely mounted and does not wobble.

4. Usage Considerations

After installation, periodically check the mounting hardware for tightness, especially after strong winds or significant vibrations (e.g., after driving an RV). Ensure no debris accumulates around the brackets that could compromise their integrity or the solar

panel's performance.

5. Maintenance

The EF ECOFLOW Z Brackets are designed for minimal maintenance.

- **Regular Inspection:** Annually inspect all mounting points for any signs of corrosion, loosening, or damage.
- **Cleaning:** Clean the brackets as needed to remove dirt or grime, using a mild soap and water solution. Avoid abrasive cleaners.
- **Sealant Check:** For installations requiring sealant, periodically check the sealant for cracks or deterioration and reapply if necessary to maintain weatherproofing.

6. Troubleshooting

Issue	Possible Cause	Solution
Panel feels loose after installation	Mounting hardware not fully tightened.	Check and tighten all bolts and screws securely.
Water leakage around mounting points (for roof/wall)	Inadequate or deteriorated sealant.	Apply or reapply a high-quality, weather-resistant sealant around all screw penetrations.
Bracket corrosion	Exposure to harsh environmental conditions without proper cleaning.	Clean regularly. If corrosion is significant, consider replacement to ensure structural integrity.

7. Specifications

Feature	Detail
Product Dimensions	1.97 x 1.97 x 1.18 inches
Item Weight	10.6 ounces
Manufacturer	EF ECOFLOW
Model Number	ZBrackets-SP
Material	Aluminum
Compatibility	EF ECOFLOW 100W rigid solar panels; 400W flat stands (requires 2 sets)

8. Warranty and Support

For warranty information and customer support, please refer to the official EF ECOFLOW website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
Website: www.ecoflow.com

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