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ZAMP SOLAR ZS-US-EX-80L-DX

Zamp Solar ZAMZS-US-EX-80L-DX 80W Long Expansion Solar Panel User Manual

Model: ZS-US-EX-80L-DX | Brand: ZAMP SOLAR

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Zamp Solar ZAMZS-US-EX-80L-DX 80 Watt Long Expansion Solar Panel. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your solar panel.

PRODUCT OVERVIEW

The Zamp Solar ZAMZS-US-EX-80L-DX is an 80-watt long expansion solar panel designed for extending existing solar power systems. It features high-efficiency solar cells and durable construction for reliable outdoor use.

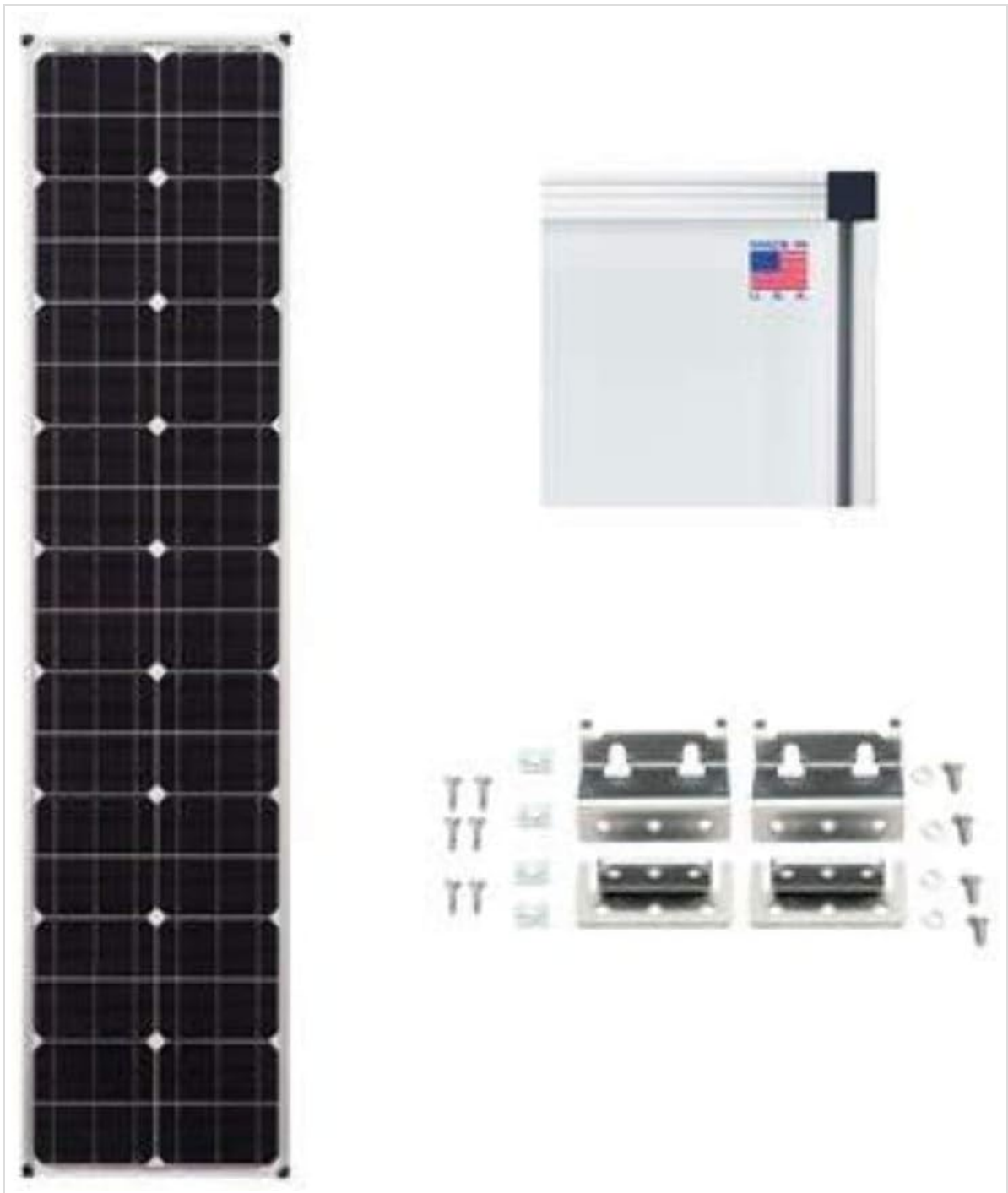


Image: The Zamp Solar 80 Watt Long Expansion Solar Panel, showing the main panel, a close-up of the frame with a "Made in USA" sticker, and the included mounting brackets and hardware.

SAFETY INSTRUCTIONS

- Always wear appropriate personal protective equipment (PPE) during installation, including gloves and eye protection.
- Do not attempt to disassemble or modify the solar panel. This will void the warranty and may cause injury.
- Ensure all electrical connections are secure and properly insulated to prevent electrical shock.
- Avoid touching the solar panel's surface when it is wet or during lightning storms.
- Keep the solar panel away from flammable materials and sources of ignition.

- Consult a qualified electrician for complex wiring or if you are unsure about any part of the installation process.

SETUP AND INSTALLATION

Unpacking

Carefully remove the solar panel and all components from the packaging. Inspect for any signs of damage during transit. Report any damage to the supplier immediately.

Mounting Location Selection

Choose a location that receives maximum direct sunlight throughout the day, free from obstructions like trees or buildings. Ensure the mounting surface is strong enough to support the weight of the panel and withstand wind loads.

Mounting the Panel

1. Attach the provided mounting brackets to the solar panel frame using the included hardware.
2. Securely fasten the solar panel to the chosen mounting surface. Ensure the panel is angled correctly for optimal sun exposure based on your geographical location and season.
3. Verify that all mounting hardware is tightened to prevent movement.

Electrical Connection

This 80W expansion panel is designed to integrate with an existing Zamp Solar system. Connect the positive (+) and negative (-) output cables from the solar panel to the corresponding inputs on your charge controller or existing solar array. Ensure polarity is correct to prevent damage to the system. Refer to your charge controller's manual for specific wiring instructions.

OPERATING INSTRUCTIONS

Once installed and connected, the Zamp Solar ZAMZS-US-EX-80L-DX solar panel will begin generating electricity when exposed to sunlight. The power generated will be regulated by your charge controller before being sent to your battery bank.

- **Monitoring:** Regularly check your charge controller's display to monitor the charging status and battery voltage.
- **Optimal Performance:** For best results, ensure the panel is clean and free from shadows.

MAINTENANCE

- **Cleaning:** Periodically clean the surface of the solar panel with a soft cloth and mild, non-abrasive cleaner to remove dirt, dust, and debris. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Regularly inspect the panel for any physical damage, such as cracks in the glass or frame. Check all electrical connections for corrosion or looseness.
- **Shading:** Ensure no new obstructions are casting shadows on the panel.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from panel	Panel is shaded; Dirty panel surface; Loose or incorrect wiring; Faulty charge controller	Remove shading; Clean panel surface; Check all connections for proper polarity and tightness; Test charge controller (refer to its manual)
Low power output	Partial shading; Dirty panel; Suboptimal panel angle; Overcast weather	Clear obstructions; Clean panel; Adjust panel angle for better sun exposure; Output will naturally be lower in cloudy conditions
Panel is hot to touch	Normal operation in direct sunlight; Insufficient ventilation	This is often normal. Ensure adequate airflow around the panel if possible.

SPECIFICATIONS

Attribute	Value
Brand	ZAMP SOLAR
Model Number	ZS-US-EX-80L-DX
Maximum Power	80 Watts
Item Weight	8.66 kg (19.1 Pounds)
Efficiency	High Efficiency
Connector Type	USB (Note: This might refer to a charge controller feature, the panel itself typically uses MC4 or similar solar connectors for power output)
UPC	853330006873
Date First Available	Aug. 4 2017

WARRANTY INFORMATION

For specific warranty details regarding your Zamp Solar ZAMZS-US-EX-80L-DX solar panel, please refer to the warranty card included with your product or visit the official Zamp Solar website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

If you have any questions or require technical assistance, please contact Zamp Solar customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your model number (ZS-US-EX-80L-DX) and purchase date ready.