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Xunzel SOLARPOWER-15

Xunzel 15W 12V Solar Panel Battery Charger User Manual

1. Product Overview

The Xunzel 15W-12V solar panel is a high-efficiency solar panel designed for battery charging, featuring a 2-meter solar charging cable. It is suitable for various applications such as boats, caravans, and trucks. This waterproof panel comes with pre-assembled solar cable and integrated current protection. It features a durable, waterproof junction box, offering high performance and reliability. Each unit is fully tested to ensure quality.



Image 1: Xunzel 15W 12V Solar Panel, showing the overall design.

Key Features:

- Specifically designed for 12V off-grid and off-shore battery charging systems.
- Additional panels can be connected in series for 24V and 48V systems.
- Easy to install and ready for connection.
- Safe and easy wiring with a pre-assembled 2-meter solar cable.
- Higher current installations can be easily connected in parallel (for more current) or in series (for more voltage).



Image 2: Xunzel Solar Panel illustrating various applications such as caravan, marine, garden, and home use.

2. Setup and Installation

The Xunzel SOLARPOWER-15 solar panel is designed for straightforward installation. It comes with a pre-assembled 2-meter solar cable for direct connection to your 12V battery system.

Connection Steps:

1. **Prepare the Mounting Location:** Choose a location that receives maximum direct sunlight throughout the day and is free from obstructions.
2. **Mount the Solar Panel:** Securely mount the solar panel using appropriate hardware (not included) for your chosen surface. Ensure it is stable and angled for optimal sun exposure.
3. **Connect to Charge Controller:** For 12V systems, connect the panel's pre-assembled solar cable to a compatible solar charge controller (not included). Ensure correct polarity: the red wire is positive (+), and the black wire is negative (-).
4. **Connect to Battery:** Connect the solar charge controller to your 12V battery, again observing correct polarity.

5. **Multi-Panel Systems:** For 24V or 48V systems, multiple panels can be connected in series. For increased current, panels can be connected in parallel. Consult a qualified electrician for complex installations to ensure safety and proper system design.



Image 3: Close-up view of the Xunzel Solar Panel's pre-assembled 2-meter solar cable and waterproof junction box.

3. Operating Instructions

Once properly installed and connected, the Xunzel 15W 12V Solar Panel will automatically begin converting sunlight into electrical energy to charge your 12V battery. The integrated current protection helps safeguard your system from overcurrent conditions.

Optimal Performance:

- **Sunlight Exposure:** Ensure the solar panel is positioned to receive maximum direct sunlight throughout the day for optimal charging efficiency. Any shading, even partial, can significantly reduce power output.
- **Monitoring:** If using a solar charge controller with a display, monitor the charging status and battery voltage to

ensure proper operation.

- **Battery Compatibility:** This panel is designed for 12V battery systems. Ensure your battery type is compatible with your solar charge controller settings.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Xunzel solar panel.

- **Panel Cleaning:** Regularly inspect the solar panel surface for dirt, dust, leaves, bird droppings, or other debris. Clean the panel with a soft cloth and clean water. Avoid abrasive cleaners, harsh chemicals, or high-pressure washers, as these can damage the panel surface.
- **Cable and Connection Inspection:** Periodically check all cable connections to ensure they are secure, tight, and free from corrosion. Loose or corroded connections can reduce efficiency and pose a safety risk.
- **Junction Box:** Ensure the waterproof junction box remains sealed and free from cracks or damage.
- **Shading:** Trim any vegetation or remove any new obstructions that may cause shading on the panel.

5. Troubleshooting

If you encounter issues with your solar panel, refer to the following troubleshooting guide:

- **No Charge or Low Charge:**
  - **Check for Obstructions:** Ensure the panel surface is clean and free from any shade, dirt, or debris. Clean the panel if necessary.
  - **Verify Connections:** Confirm all cable connections are secure, tight, and correctly polarized (red to positive, black to negative).
  - **Sunlight Exposure:** Ensure the solar panel is receiving adequate direct sunlight. Cloudy weather or incorrect angling will reduce output.
  - **Battery Condition:** A faulty or deeply discharged battery may not accept a charge. Test your battery's voltage and health.
  - **Charge Controller:** If using a charge controller, check its status indicators or display for error messages. Refer to the charge controller's manual.
- **Physical Damage:**
  - If the panel glass, frame, cables, or junction box are physically damaged, discontinue use immediately. Contact customer support or a qualified technician for assessment and repair. Do not attempt to repair damaged electrical components yourself.

6. Specifications

Manufacturer	Xunzel
Model Number	SOLARPOWER-15
Product Dimensions (L x W x H)	2.5 x 34.5 x 38.6 cm
Weight	1.65 Kilograms
Power Source Type	Solar
Voltage	12 Volts

Power	15 Watts
Maximum Power	15 Watt
Included Components	15W-12V Solar Panel, 2m Solar Cable
Batteries Included	No
Batteries Required	No
ASIN	B01JAD1KMO
International Article Code	08436533582294

7. Warranty and Support

Warranty information for the Xunzel 15W 12V Solar Panel is not explicitly provided in the product details. Please refer to your purchase documentation, the retailer's website, or contact the point of purchase for specific warranty terms and conditions.

For technical assistance, product inquiries, or support, please contact Xunzel customer service through their official website or the contact information provided with your purchase.

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