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> XUNZEL SOLARX-8 Deep Cycle 12V Solar Battery User Manual

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INTRODUCTION

Thank you for choosing the XUNZEL SOLARX-8 Deep Cycle 12V Solar Battery. This battery is a sealed, safe, and maintenance-free AGM (Absorbent Glass Mat) type, specifically designed for applications requiring frequent cyclic discharge. Its robust construction ensures excellent performance and a long service life. This manual provides important instructions for the safe and efficient use of your battery.



Image 1: XUNZEL SOLARX-8 Deep Cycle 12V Solar Battery. This image displays the compact and robust design of the battery, highlighting its terminals and sealed casing.

SETUP AND INSTALLATION

The XUNZEL SOLARX-8 battery is designed for versatile installation. It can be installed in **any position**, both vertically and horizontally, without compromising its performance or safety due to its sealed AGM construction.

- **Unpacking:** Carefully remove the battery from its packaging. Inspect for any signs of damage during transit.
- **Placement:** Choose a location that is well-ventilated and protected from extreme temperatures. Ensure the battery is secured to prevent movement.
- **Connections:** Connect the battery terminals to your system (e.g., solar charge controller, inverter) using appropriate cables and connectors. Ensure correct polarity (positive to positive, negative to negative). *Incorrect connections can cause damage to the battery and connected equipment.*
- **Initial Charge:** Although the battery may arrive partially charged, it is recommended to perform a full initial charge before the first use to optimize its lifespan and performance. Refer to your charge controller's manual for proper charging parameters.

This battery is sealed and safe, meaning it is spill-proof and requires no maintenance in terms of adding water.

OPERATING INSTRUCTIONS

The SOLARX-8 is a deep cycle battery, optimized for applications requiring frequent and significant discharge cycles. Its low internal resistance makes it particularly suitable for high-current applications.

- **Deep Cycle Use:** This battery is designed to be discharged deeply and recharged many times. Avoid consistently discharging below 50% State of Charge (SOC) for optimal lifespan, though it can handle deeper discharges.
- **Charging:** Use a compatible 12V charger or solar charge controller designed for AGM batteries. Ensure the charging voltage and current settings are appropriate to prevent overcharging or undercharging, which can reduce battery life. The battery exhibits very good charging behavior.
- **High-Current Applications:** The low internal resistance of the battery makes it ideal for powering devices with high current demands, such as inverters, bow thrusters, winches, and engine starting systems.
- **Temperature:** Operate the battery within its recommended temperature range for optimal performance and longevity. Extreme temperatures can affect capacity and lifespan.

MAINTENANCE

The XUNZEL SOLARX-8 is a **maintenance-free** battery, meaning it does not require electrolyte level checks or water additions. However, regular checks can help ensure its longevity and performance.

- **Cleaning:** Keep the battery terminals and casing clean and free from dirt, dust, and corrosion. Use a damp cloth to wipe the exterior.
- **Terminal Inspection:** Periodically check terminal connections to ensure they are tight and secure. Loose connections can lead to power loss and heat buildup.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and stored in a cool, dry place. Recharge periodically (e.g., every 3-6 months) to prevent deep discharge and maintain its charge. The battery has a low self-discharge rate.
- **Float Life:** The battery is designed for a float life of up to 10 years under ideal conditions.

TROUBLESHOOTING

If you experience issues with your XUNZEL SOLARX-8 battery, consider the following common checks:

- **No Power Output:** Check all cable connections for tightness and correct polarity. Ensure the battery is sufficiently charged.
- **Battery Not Charging:** Verify that your charger or solar charge controller is functioning correctly and is compatible with 12V AGM batteries. Check input power to the charger.
- **Reduced Capacity:** Ensure the battery has been fully charged. Repeated deep discharges below recommended levels or operation in extreme temperatures can temporarily or permanently reduce capacity.
- **Overheating:** Disconnect the battery immediately if it feels excessively hot. This could indicate a short circuit, overcharging, or internal fault. Seek professional assistance.

For persistent issues or concerns not addressed here, please contact XUNZEL customer support.

SPECIFICATIONS

Brand	XUNZEL
Model Number	SOLARX-8
Item Type Name	12V Deep Cycle Solar Battery
Voltage	12 Volts
Battery Cell Composition	Lead-Acid (AGM)
Reusability	Rechargeable
Battery Quantity	1 unit
Battery Weight	2000 Grams (2 kg)
Product Dimensions (L x W x H)	6.7 x 15.3 x 9.5 cm
Recommended Uses	Bicycle <i>(Note: This may refer to electric bicycle charging systems or similar low-power applications.)</i>
Float Life	Up to 10 years
Certifications/Approvals	IMDG, FAA, IATA, DIN 43539-T5, IEC61427-2005, IEC60896-21/22-2004

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your XUNZEL SOLARX-8 battery, please contact XUNZEL customer service directly. Keep your purchase receipt and model number (SOLARX-8) available when contacting support.

Please visit the official XUNZEL website for the most up-to-date contact information and support resources.