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Volt Polska 6AKUXAG100

VOLT POLSKA AGM 12V 100Ah Battery User Manual

Model: 6AKUXAG100

1. Introduction

This manual provides essential information for the safe and efficient use of your VOLT POLSKA AGM 12V 100Ah battery. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of the product. This battery is a Valve Regulated Lead Acid (VRLA) Absorbed Glass Mat (AGM) type, designed for various applications requiring reliable power.



Image 1.1: Overview of the VOLT POLSKA AGM 12V 100Ah Battery. This image shows the top and side view of the black battery casing, displaying the 'AGM 100Ah' label, 'VRLA AGM BATTERY', 'AGM-100 12V100Ah', and caution warnings.

2. Safety Instructions

Always prioritize safety when handling batteries. Failure to follow these instructions can result in serious injury or damage to the battery and surrounding equipment.

- **Avoid Short Circuit:** Do not allow metal objects to bridge the positive and negative terminals. This can cause sparks, heat, and potential explosion.
- **Do Not Charge in a Sealed Container:** Batteries can produce gases during charging. Ensure adequate ventilation to prevent gas accumulation, which can be explosive.
- **Risk of Fire, Explosion, or Burns:** Batteries contain corrosive acid and can generate explosive gases. Keep away from open flames, sparks, and heat sources. Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- **Do Not Disassemble, Heat Above 55°C, or Incinerate:** Tampering with the battery can release hazardous materials. High temperatures can cause internal damage, fire, or explosion.
- **Proper Handling:** Lift the battery using appropriate lifting techniques or equipment. The battery is heavy.
- **Disposal:** Dispose of batteries according to local regulations. Do not dispose of with household waste.

3. Product Components

Your VOLT POLSKA AGM 12V 100Ah battery package typically includes the following items:

- 1 x VOLT POLSKA AGM 12V 100Ah Battery
- 1 x Carrying Strap (may be pre-attached or separate)
- 2 x Terminal Bolts with Washers and Nuts



Image 3.1: VOLT POLSKA AGM 12V 100Ah Battery with an attached carrying strap. This image highlights the black strap for easier transport, along with the battery's main labels and terminals.



Image 3.2: Included accessories: a black carrying strap and a small plastic bag containing two terminal bolts, washers, and nuts for secure connection.

4. Setup and Installation

Follow these steps for proper installation of your battery:

1. **Inspection:** Before installation, visually inspect the battery for any signs of damage, cracks, or leaks. Do not install a damaged battery.
2. **Ventilation:** Ensure the installation area is well-ventilated.
3. **Positioning:** Place the battery in a stable, upright position. AGM batteries can operate in various orientations, but upright is generally recommended for optimal performance and safety.
4. **Terminal Cleaning:** Ensure battery terminals and cable connectors are clean and free of corrosion. Use a wire brush if necessary.
5. **Connecting Cables:** Connect the positive (+) cable (usually red) to the positive (+) terminal of the battery. Then, connect the negative (-) cable (usually black) to the negative (-) terminal. Ensure connections are tight using the provided bolts, washers, and nuts. Overtightening can damage terminals.
6. **Initial Charge:** It is recommended to fully charge the battery before its first use to ensure maximum capacity and lifespan. Use a charger compatible with AGM batteries and the specified voltage (12V).

5. Operating Instructions

The VOLT POLSKA AGM 12V 100Ah battery is a maintenance-free, rechargeable power source. It is suitable for various applications, including but not limited to scooters, uninterruptible power supplies (UPS), solar systems, and emergency lighting.

- **Charging:** Always use a charger specifically designed for AGM batteries with a 12V output. Overcharging or undercharging can reduce battery life. Follow the charger manufacturer's instructions.
- **Discharge:** Avoid deep discharges below 10.5V to prolong battery life. While AGM batteries are robust, repeated deep discharges can cause irreversible damage.
- **Temperature:** Operate the battery within its recommended temperature range (typically 20°C to 25°C for optimal performance). Extreme temperatures can affect capacity and lifespan.
- **Parallel/Series Connection:** If connecting multiple batteries, ensure they are of the same type, capacity, and age. Consult a professional for complex setups to ensure proper wiring and balancing.

6. Maintenance

The VOLT POLSKA AGM battery is designed to be maintenance-free, but some general care practices will help ensure its longevity:

- **Keep Clean:** Periodically wipe the battery casing and terminals with a clean, damp cloth to remove dust and dirt. Ensure terminals are dry before reconnecting.
- **Check Connections:** Regularly inspect terminal connections to ensure they are tight and free of corrosion.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and stored in a cool, dry place. Recharge every 3-6 months to prevent self-discharge and maintain capacity.
- **Avoid Physical Damage:** Protect the battery from impacts or drops that could damage the casing or internal components.

7. Troubleshooting

If you encounter issues with your battery, consider the following common problems and solutions:

- **Battery Not Holding Charge:**
  - Check if the charger is functioning correctly and is compatible with AGM batteries.
  - Verify that all connections are secure and clean.
  - The battery may have reached the end of its service life.
- **Low Voltage Output:**
  - Ensure the battery is fully charged.
  - Check for loose or corroded connections.
  - The load connected to the battery might be too high, causing excessive voltage drop.
- **Battery Overheating During Charge:**
  - Disconnect the charger immediately.
  - Ensure adequate ventilation around the battery.
  - The charger may be faulty or incompatible.

If problems persist, consult a qualified technician or contact customer support.

8. Specifications

Specification	Value

Specification	Value
Brand	Volt Polska
Model Name	AGM 12V 100Ah
Item Model Number	6AKUXAG100
Battery Composition	VRLA Lead-Acid Battery
Voltage	12 Volts
Battery Capacity	100 Ampere-hours
Number of Batteries	1 (12V battery required)
Reusability	Rechargeable
Recommended Product Uses	Scooter, UPS, Solar Systems, Emergency Lighting
Item Dimensions (L x W x H)	33.1 x 17.3 x 21.3 centimeters
Manufacturer	Volt Polska

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.
For technical assistance or further inquiries, please visit the official Volt Polska website or contact their customer service department.

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