

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [AKKUMAN](#) /

› [Instruction Manual for AKS 12V 4.5Ah AGM Lead-Acid Battery Set](#)

AKKUMAN AKS 12V 4.5Ah AGM Battery Set (B0CL3KS97S)

Instruction Manual for AKS 12V 4.5Ah AGM Lead-Acid Battery Set

Model: AKS 12V 4.5Ah AGM Battery Set (B0CL3KS97S)

Brand: AKKUMAN

INTRODUCTION

This manual provides essential information for the safe and effective use of your AKS 12V 4.5Ah AGM Lead-Acid Battery Set. This two-piece battery set is designed as a reliable replacement power source for various applications, including patient lifts (such as Foldy, Dualo, Duo, and Torneo models), wheelchairs, and other electric mobility devices. Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

SAFETY INSTRUCTIONS

Adhering to these safety guidelines is crucial to prevent injury, damage to the batteries, or damage to connected equipment.

- **Do not incinerate:** Disposing of batteries by incineration can cause explosion and release hazardous materials.
- **Do not short the battery terminals:** Short-circuiting can lead to excessive heat, fire, or explosion. Always handle with care and avoid contact between terminals.
- **Do not charge in a gas-tight container:** Batteries can release gases during charging. Ensure adequate ventilation to prevent gas accumulation.
- **Contact with electrolyte (Acid):** If contact is made with electrolyte, flush immediately with water. Seek medical attention if irritation persists.
- **Risk of fire, explosion, or burns:** Improper handling, charging, or damage can lead to severe hazards.
- **Do not disassemble:** Attempting to disassemble the battery can expose you to hazardous materials and internal components, leading to injury or battery damage.
- **Do not heat above 60°C (140°F):** High temperatures can damage the battery and pose a safety risk.
- **Recycling:** Rechargeable Sealed Lead-Acid Batteries must be recycled. Do not dispose of with household waste.



Image: Front view of a single AKS 12V 4.5Ah AGM battery, clearly displaying the caution and warning labels regarding safe handling and disposal.

PRODUCT OVERVIEW

The AKS 12V 4.5Ah AGM Lead-Acid Battery Set consists of two high-quality, maintenance-free batteries designed for reliable power delivery.

Key Features:

- **AGM Technology:** Absorbed Glass Mat (AGM) technology ensures a long service life and high reliability, making the batteries spill-proof and maintenance-free.
- **Industrial Cells:** Constructed with high-quality industrial cells for consistent performance and durability.
- **Nominal Capacity:** Each battery provides a nominal capacity of 4.5 Ampere-hours (Ah).
- **Nominal Voltage:** Each battery operates at a nominal voltage of 12 Volts.
- **Two-Piece Set:** Supplied as a pair for applications requiring higher voltage (e.g., 24V when connected in series) or extended runtime.



Image: The AKS 12V 4.5Ah AGM Lead-Acid Battery Set, showing both batteries included in the package.

SETUP AND INSTALLATION

The AKS battery set is designed for self-installation, allowing for quick and easy replacement. Always ensure the device is powered off and disconnected from any power source before beginning installation.

General Installation Steps:

1. **Preparation:** Gather necessary tools (e.g., screwdriver, wrench) and ensure a clean, dry workspace.
2. **Locate Existing Batteries:** Identify the battery compartment in your patient lift, wheelchair, or electric mobility device.
3. **Disconnect Old Batteries:** Carefully disconnect the negative (-) terminal first, then the positive (+) terminal of the old batteries. Note the wiring configuration (series or parallel) if replacing multiple batteries.

4. **Remove Old Batteries:** Safely remove the old batteries from the compartment.
5. **Install New Batteries:** Place the new AKS 12V 4.5Ah batteries into the compartment, ensuring they fit securely.
6. **Connect New Batteries:** Connect the positive (+) terminal first, then the negative (-) terminal, following the original wiring configuration. Ensure all connections are tight and secure.
7. **Secure Compartment:** Close and secure the battery compartment.
8. **Initial Charge:** It is recommended to fully charge the new batteries before the first use. Refer to the "Operation" section for charging guidelines.

For specific instructions related to your device, please consult your device's original user manual.





Image: Top view of an AKS 12V 4.5Ah AGM battery, highlighting the positive (red) and negative (black) terminals with yellow protective caps.

OPERATION

Proper charging and discharge practices are essential for maximizing battery life and performance.

Charging:

- Use a charger specifically designed for 12V AGM lead-acid batteries.
- **Cycle Use Voltage:** For regular charging cycles, maintain a voltage between 14.4V and 15.0V at 25°C (77°F).
- **Standby Use Voltage:** For float or standby charging, maintain a voltage between 13.5V and 13.8V at 25°C (77°F).
- **Initial Current:** Do not exceed an initial charging current of 1.35A.
- Avoid overcharging, as this can reduce battery life.
- Charge batteries in a well-ventilated area.

Discharge:

- Avoid deep discharges. Regularly recharging the battery, even after partial discharge, helps prolong its lifespan.
- Do not exceed the maximum discharge current specified by your device manufacturer.

MAINTENANCE

AGM batteries are largely maintenance-free, but following these guidelines will ensure optimal performance and longevity.

- **Cleaning:** Keep the battery terminals and surface clean and free of dirt or corrosion. Use a dry cloth for cleaning.
- **Inspection:** Periodically inspect the battery for any signs of physical damage, swelling, or leaks. If any damage is observed, discontinue use and replace the battery.
- **Storage:** If storing the batteries for an extended period, ensure they are fully charged and stored in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 3-6 months to prevent self-discharge.

- **Temperature:** Operate and store batteries within the recommended temperature range (typically 20-25°C or 68-77°F) for optimal performance and lifespan.

TROUBLESHOOTING

This section addresses common issues you might encounter with your battery set.

| Problem | Possible Cause | Solution |
|--|--|---|
| Device not powering on or short runtime. | Battery not fully charged, battery degradation, loose connections. | Ensure batteries are fully charged. Check all connections for tightness. If issues persist, batteries may need replacement. |
| Battery not charging. | Faulty charger, incorrect charger type, damaged battery, loose charging cable. | Verify charger is working and compatible. Check charging cable connections. Inspect battery for visible damage. |
| Battery swelling or overheating during charge/discharge. | Overcharging, internal short, faulty battery. | Immediately disconnect the battery. This indicates a serious issue. Do not use the battery and arrange for safe disposal and replacement. |

SPECIFICATIONS

| Parameter | Value |
|--------------------------------|-----------------------------|
| Nominal Capacity | 4.5 Ah |
| Nominal Voltage | 12 Volt |
| Technology | Lead-fleece (AGM) |
| Cell Type | Industrial Cell |
| Cycle Use Voltage (25°C) | 14.4V - 15.0V |
| Standby Use Voltage (25°C) | 13.5V - 13.8V |
| Initial Charging Current (Max) | 1.35A |
| Weight (per battery) | Approx. 3.3 kg (3300 grams) |
| ASIN | B0CL3KS97S |

COMPATIBILITY

This AKS 12V 4.5Ah battery set is compatible with, but not limited to, the following devices:

- Foldy Patient Lifters
- Dualo Patient Lifters

- Duo Patient Lifters
- Torneo Patient Lifters
- Various Wheelchairs
- Various Electric Mobility Devices

Always verify the voltage and capacity requirements of your specific device before installing new batteries.

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the purchase documentation or contact AKKUman directly through their official channels. Ensure you have your product model (AKS 12V 4.5Ah AGM Battery Set) and ASIN (B0CL3KS97S) ready when contacting support.

AKKUman is a specialist in battery and charging technology, committed to providing high-quality and reliable battery solutions.

