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## AJC UPS-500D -650D -650GP

# AJC 12V 7Ah UPS Battery User Manual

Compatible with Kebo UPS-500D, UPS-650D, UPS-650GP Models

## 1. Introduction

This manual provides essential information for the safe and effective use of your AJC 12V 7Ah Sealed Lead Acid (SLA) battery. This battery is designed as a replacement for Kebo UPS-500D, UPS-650D, and UPS-650GP Uninterruptible Power Supply (UPS) systems. Please read this manual thoroughly before installation and operation to ensure proper handling and to maximize battery life.

## 2. Safety Information

Your AJC 12V 7Ah UPS battery is a sealed lead-acid battery. While designed for safe operation, it is crucial to observe the following safety precautions to prevent injury or damage:

- **Avoid Short Circuits:** Do not allow metal objects to bridge the battery terminals. This can cause severe sparks, heat, and potential explosion.
- **Recharge After Use:** To maintain battery health and capacity, recharge the battery promptly after each discharge cycle.
- **Risk of Fire, Explosion, or Burns:** Batteries contain corrosive acid and can generate explosive gases. Keep away from open flames, sparks, and heat sources.
- **Do Not Charge in a Sealed Container:** Ensure adequate ventilation during charging to prevent the buildup of explosive gases.
- **Proper Disposal:** Batteries must be recycled or disposed of properly according to local regulations. Do not dispose of with household waste.
- **Do Not Disassemble:** Do not attempt to open or disassemble the battery. There are no user-serviceable parts inside.
- **Avoid High Heat:** Do not expose the battery to temperatures above 45°C (113°F) or incinerate it.
- **Wear Protective Gear:** When handling batteries, especially during installation or removal, wear safety glasses and insulated gloves.




Image 2.1: AJC 12V 7Ah UPS Battery showing its warning label and packaging. The label details critical safety instructions for handling and use.

## 3. Product Overview

The AJC 12V 7Ah UPS battery is a high-quality, maintenance-free, Valve Regulated Lead-Acid (VRLA) battery designed for reliable power backup. It features F2 terminals for easy connection.

### 3.1 Key Features

- **Voltage:** 12 Volts
- **Capacity:** 7 Amp-hours (7Ah)
- **Terminals:** F2 (Faston Tab 250)
- **Battery Cell Composition:** Sealed Lead Acid (SLA)
- **Design:** Rechargeable, Non-spillable, Maintenance-free

### 3.2 Internal Components




Image 3.1: Exploded view illustrating the internal components of an AJC VRLA battery, including the hi-impact case, safety valve, sealed terminal post, cast on strap, absorbed glass mat separator, special grid design, and special active material.

- **Hi-Impact Case and Cover:** Ensures reserve electrolyte capacity and protects against leakage and corrosion.
- **Safety Valve:** Relieves excess pressure to prevent damage.
- **Sealed Terminal Post:** Prevents acid leakage, reduces corrosion, and extends battery life.
- **Cast On Strap:** Utilizes an auto welding system to weld plate groups, ensuring product stability.
- **Absorbed Glass Mat (AGM) Separator:** Makes the battery spill-proof. Valve regulated design eliminates fluid loss.
- **Special Grid Design:** Withstands severe vibration and assures maximum conductivity.
- **Special Active Material:** Uses exclusive materials to prolong battery life and dependability.



Image 3.2: Close-up view of an F2 terminal, which is a common spade-type connector for battery applications.

## 4. Installation

Follow these steps carefully when replacing your UPS battery. Always refer to the specific instructions provided by your UPS manufacturer (Kebo) for detailed guidance.




Image 4.1: Visual guide for replacing a battery, outlining five key steps from referring to manufacturer's instructions to connecting the new battery.

1. **Consult Manufacturer's Instructions:** Always refer to the manufacturer's instructions included with or on your original UPS battery and UPS unit for specific replacement procedures.
2. **Safety First:** To avoid injury from electrical shock or short circuits, remove wristwatches and jewelry such as rings before handling batteries. Use tools with insulated handles.
3. **Locate Battery Compartment:** Identify and open the battery compartment of your Kebo UPS unit.
4. **Disconnect and Remove Old Battery:** Carefully disconnect the wires from the old battery terminals (typically negative first, then positive) and remove the old battery. Note the orientation of the terminals.
5. **Install New Battery:** Insert the new AJC 12V 7Ah battery into the compartment, ensuring correct polarity. Connect the wires to the battery terminals (typically positive first, then negative). Secure all connections.

## 5. Operating Instructions

Once installed, the AJC 12V 7Ah UPS battery operates as part of your Kebo UPS system. The UPS unit will manage charging and discharging. Ensure your UPS is connected to a stable power source to allow the battery to remain fully charged.

- **Initial Charge:** After installation, allow the UPS system to charge the new battery for at least 8-12 hours before relying on it for full backup capacity.
- **Normal Operation:** The battery will automatically provide power to your connected devices during a power outage.
- **Avoid Deep Discharge:** While the UPS manages this, prolonged deep discharges can reduce battery life. Allow the UPS to shut down gracefully when battery power is low.
- **Temperature:** Operate the UPS and battery within recommended temperature ranges (typically 20°C to 25°C or 68°F to 77°F) for optimal performance and lifespan.

## 6. Maintenance

The AJC 12V 7Ah battery is a maintenance-free VRLA type, meaning it does not require water additions. However, some general care practices can extend its lifespan:

- **Keep Clean:** Periodically inspect the battery and terminals for dust, dirt, or corrosion. Clean with a dry cloth. If corrosion is present, disconnect the battery and clean terminals with a wire brush and a baking soda/water solution, then rinse and dry thoroughly.
- **Check Connections:** Ensure terminal connections remain tight. Loose connections can cause resistance, heat, and power loss.
- **Environmental Conditions:** Store and operate the battery in a cool, dry, and well-ventilated area. Extreme temperatures (hot or cold) can significantly reduce battery life.
- **Regular Cycling:** If the UPS is rarely used for backup, consider performing a controlled discharge (e.g., unplugging the UPS from the wall for a short period) every few months to exercise the battery. Consult your UPS manual for recommended battery test procedures.

## 7. Troubleshooting

If you experience issues with your UPS system after battery replacement, consider the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
|---|---|---|
| UPS not providing backup power | Battery not fully charged; Loose connections; Defective battery | Allow UPS to charge battery for 8-12 hours; Check and tighten terminal connections; If problem persists, contact support. |
| Short backup time | Battery not fully charged; Battery nearing end of life; Overload on UPS | Ensure full charge; Consider battery replacement if old; Reduce load on UPS. |
| UPS beeping continuously | Battery low; Overload; Internal fault | Allow battery to charge; Reduce load; Consult UPS manual for specific beep codes. |
| Battery terminals corroded | Exposure to moisture or gases; Loose connection | Disconnect battery, clean terminals with baking soda solution and wire brush, rinse, dry, and reconnect securely. |

For issues not covered here, or if problems persist, please refer to your Kebo UPS user manual or contact AJC Battery customer support.

## 8. Specifications

Detailed technical specifications for the AJC 12V 7Ah UPS Battery:

**Voltage:** 12 Volts

**Capacity:** 7 Amp Hours (7Ah)

**Terminals:** F2 (Faston Tab 250)

**Battery Cell Composition:** Sealed Lead Acid (SLA)

**Product Dimensions:** 5.94 x 2.56 x 3.7 inches (15.09 x 6.50 x 9.40 cm)

**Item Weight:** 4.5 pounds (2.04 kg)

**Model Number:** UPS-500D -650D -650GP (Compatibility)

**Manufacturer:** AJC Battery

**UPC:** 740737126047

**Constant Voltage Charge (25°C):**

- **Standby Use:** 13.60-13.80V (Initial Current: Less Than 2.1A)
- **Cycle Use:** 14.50-14.90V (Initial Current: Less Than 2.1A)

## 9. Disposal and Recycling

This battery contains lead and other materials that can be harmful to the environment if not disposed of properly. Do not dispose of this battery with general household waste. Always recycle spent batteries at an authorized recycling center. Many retailers that sell batteries also offer recycling services. Please check with your local authorities for specific recycling requirements in your area.

## 10. Contact and Support

For technical assistance, warranty inquiries, or further information regarding your AJC 12V 7Ah UPS battery, please contact AJC Battery customer support. Refer to the packaging or the AJC Battery website for the most current contact information.
**AJC Battery Website:** www.ajcbattery.com


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