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AJC ULT-2000 Ultimate 2000VA Tower (TBC31)

AJC Battery Instruction Manual

Model: ULT-2000 Ultimate 2000VA Tower (TBC31) 12V 7Ah UPS Battery
Brand: AJC

1. Introduction

This manual provides essential instructions for the safe and effective use, installation, and maintenance of your AJC 12V 7Ah UPS Battery, designed as a compatible replacement for the Powercom ULT-2000 Ultimate 2000VA Tower (TBC31). Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

2. Safety Information

Your AJC battery is a Rechargeable Valve Regulated Lead-Acid (VRLA) battery, also known as a Sealed Lead-Acid (SLA) battery. While designed for safety, proper handling is crucial. Observe the following warnings:

- **Avoid short circuit:** Do not allow metal objects to bridge the battery terminals.
- **Recharge after use:** To prolong battery life, recharge the battery promptly after discharge.
- **Risk of Fire, Explosion, or Burns:** Batteries contain corrosive materials. Handle with care.
- **Do not charge in a sealed container:** Ensure adequate ventilation during charging.
- **Must be recycled or disposed of properly:** Do not discard with household waste. Follow local regulations for lead-acid battery recycling.
- **Do not disassemble, heat above 45 °C (113 °F), or incinerate:** This can lead to hazardous conditions.



Figure 2.1: Front view of the AJC 12V 7Ah UPS Battery, showing warning labels and specifications.

3. Product Overview

The AJC 12V 7Ah UPS Battery is a high-quality, maintenance-free, sealed lead-acid battery designed for reliable power backup. It features F2 terminals for secure connections.

3.1 Key Features

- **Voltage:** 12 Volts
- **Capacity:** 7 Amp-hours (7Ah)
- **Terminals:** F2 (Faston Tab 250)
- **Design:** Rechargeable Valve Regulated Lead-Acid (VRLA), Non-spillable



Figure 3.1: Close-up view of an F2 terminal, indicating the connection type.

3.2 Internal Components

The AJC battery incorporates advanced design features for durability and performance:



Figure 3.2: Exploded view diagram illustrating the internal components of an AJC VRLA battery, including hi-impact case, safety valve, sealed terminal post, cast on strap, absorbed glass mat separator, special grid design, and special active material.

3.3 Typical Applications

AJC batteries are suitable for a wide range of applications requiring reliable backup power:



Figure 3.3: Common applications for AJC batteries, such as Uninterruptible Power Supplies (UPS), mobility devices, security systems, and emergency

lighting.

3.4 Battery Characteristics



Figure 3.4: Visual representation of AJC battery characteristics: high capacity, reliable power source, rechargeable, and long cycle life.

4. Setup and Installation

When replacing your UPS battery, always prioritize safety and refer to the original equipment manufacturer's instructions for your UPS device.

4.1 Battery Replacement Steps

1. Always refer to manufacturer's instructions included with or on your original battery and UPS device.
2. To avoid injury, remove wristwatches and jewelry such as rings when replacing batteries. Use tools with insulated handles.
3. Locate the battery compartment of your UPS device.
4. Disconnect wires from battery terminals and carefully remove the old battery.
5. Insert the new AJC battery and connect wires to battery terminals, ensuring correct polarity (positive to positive, negative to negative).



Figure 4.1: Visual guide for battery replacement steps.

Ensure all connections are secure. After installation, close the battery compartment and power on your UPS device according to its manual.

5. Operating Instructions

The AJC 12V 7Ah battery is designed for continuous operation within a UPS system. It will be charged and discharged automatically by the UPS unit.

5.1 Charging

The battery is a rechargeable unit. For optimal performance and longevity, ensure your UPS system provides the correct charging parameters. The recommended constant voltage charge at 25°C (77°F) is:

- **Standby Use:** Voltage Regulation 13.60-13.80V, Initial Current Less Than 2.1A
- **Cycle Use:** Voltage Regulation 14.50-14.90V, Initial Current Less Than 2.1A

Your UPS system should manage these charging cycles automatically. Avoid overcharging or deep discharging the battery, as this can reduce its lifespan.

6. Maintenance

AJC VRLA batteries are largely maintenance-free. However, periodic checks can help ensure optimal performance and extend battery life.

- **Cleaning:** Keep battery terminals and surfaces clean and free of corrosion. Use a dry cloth to wipe down the battery. If corrosion is present on terminals, disconnect the battery and clean with a wire brush and a solution of baking soda and water, then rinse and dry thoroughly before reconnecting.
- **Inspection:** Periodically inspect the battery for any signs of physical damage, swelling, or leaks. If any damage is observed, replace the battery immediately.
- **Temperature:** Operate and store the battery within recommended temperature ranges (typically 20-25°C or 68-77°F) to maximize lifespan. Extreme temperatures can degrade performance.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and recharge it every 3-6 months to prevent deep discharge. Store in a cool, dry place.

7. Troubleshooting

If you experience issues with your AJC battery, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Battery not charging	Loose connections, faulty UPS charger, deeply discharged battery	Check all connections. Consult your UPS manual for charger diagnostics. If deeply discharged, a specialized charger may be needed, or the battery may need replacement.
Short runtime on battery power	Battery nearing end of life, insufficient charge, excessive load	Ensure battery is fully charged. Reduce load on UPS. If battery is old (typically 3-5 years), consider replacement.
Battery swelling or leaking	Overcharging, internal fault, excessive heat	**Immediately disconnect the battery.** This indicates a serious fault. Replace the battery and investigate the UPS charging system. Dispose of the faulty battery properly.

For further assistance, refer to your UPS device's instruction manual or contact AJC Battery customer support.

8. Specifications

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

Specification	Value
Model Number	ULT-2000 Ultimate 2000VA Tower (TBC31) (*Compatible Replacement*)

Specification	Value
Voltage	12V
Capacity	7Ah (7 Amp Hours)
Terminals	F2 Terminal
Product Dimensions (L x W x H)	5.94 x 2.56 x 3.7 inches
Item Weight	4.5 pounds
Battery Type	Rechargeable Valve Regulated Lead-Acid (VRLA)
UPC	740737138989
Manufacturer	AJC Battery

9. Video Resources

Watch the official video from AJC Battery for more information on UPS batteries:

▶ **Watch video online**
AJC UPS Batteries

Video 9.1: AJC UPS Batteries. This video highlights the importance of UPS devices for protecting against power outages and data loss, and how AJC backup batteries provide reliable power for various leading UPS brands.

10. Warranty and Support

For specific warranty details, please refer to the documentation provided with your purchase or visit the official AJC Battery website. AJC Battery stands behind the quality of its products.
For customer support, technical assistance, or to view other AJC Battery products, please visit the AJC Store on Amazon or their official website.

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