

Manuals.plus /

- › ULTIMATRON FRANCE /
- › ULTIMATRON AGM Deep Cycle Battery JM-12-200 User Manual

ULTIMATRON FRANCE JM-12-200

ULTIMATRON AGM Deep Cycle Battery JM-12-200 User Manual

Model: JM-12-200

1. PRODUCT OVERVIEW

The ULTIMATRON AGM Deep Cycle Battery JM-12-200 is a high-performance, maintenance-free battery designed for applications requiring deep and frequent discharge cycles. This 12V, 200Ah battery utilizes Absorbent Glass Mat (AGM) technology, offering superior performance, durability, and safety compared to traditional lead-acid batteries. It is ideal for solar energy systems, RVs, marine applications, and other off-grid power needs.



An image showing the ULTIMATRON AGM Deep Cycle Battery JM-12-200, a black rectangular battery with a blue top. The label indicates it is maintenance-free, an AGM battery, model JM 12-200 (12V 200Ah/10HR), with specified cycle and standby use voltages, and initial current.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines when handling, installing, or operating the battery to prevent injury or damage.

- **Ventilation:** Do not charge the battery in a gas-tight or unventilated container. Ensure adequate ventilation to disperse any gases that may be produced during charging.
- **Short Circuits:** Do not short the battery terminals. This can cause severe sparks, heat, and potential explosion. Use insulated tools.
- **Incineration:** Do not incinerate the battery. Batteries contain hazardous materials that can explode or release toxic fumes when burned.
- **Electrolyte Contact:** If contact is made with electrolyte (acid), flush the affected area with water immediately for at least 15 minutes. Seek medical attention if irritation persists.
- **Personal Protective Equipment:** Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working with batteries.
- **Children and Pets:** Keep batteries out of reach of children and pets.
- **Proper Handling:** Due to the battery's weight (57 kg), use proper lifting techniques or equipment to avoid injury.

3. SETUP AND INSTALLATION

Proper installation is crucial for the battery's performance and longevity.

1. **Inspection:** Before installation, inspect the battery for any signs of damage, cracks, or leaks. Do not install a damaged battery.
2. **Location:** Install the battery in a clean, dry, and well-ventilated area. Avoid direct sunlight and extreme temperatures. Ensure the location can support the battery's weight.
3. **Mounting:** Secure the battery firmly to prevent movement or vibration, which can cause damage.
4. **Connections:**
 - Ensure all cables and connectors are clean and free of corrosion.
 - Connect the positive (+) terminal of the battery to the positive (+) terminal of your system/charger.
 - Connect the negative (-) terminal of the battery to the negative (-) terminal of your system/charger.
 - Tighten all connections securely to ensure good electrical contact and prevent arcing. Do not overtighten.
5. **Initial Charge:** It is recommended to fully charge the battery before its first use. The initial charging current should not exceed 50A.

4. OPERATING INSTRUCTIONS

The ULTIMATRON JM-12-200 is an AGM deep cycle battery designed for reliable power delivery over many charge/discharge cycles.

- **Charging Voltage (Cycle Use):** For applications involving regular charging and discharging (e.g., solar systems, RVs), charge the battery within the range of **14.4V to 15.0V**.
- **Charging Voltage (Standby Use):** For applications where the battery is primarily used as a backup power source and kept fully charged (e.g., UPS systems), maintain a float charge between **13.5V and 13.8V**.
- **Discharge Depth:** While deep cycle batteries are designed for significant discharge, regularly discharging below 50% of capacity can shorten their lifespan. Avoid discharging below 20% whenever possible.
- **Charging Current:** The recommended initial charging current is **50A**. Always use a charger compatible with AGM batteries and ensure the charging current does not exceed the manufacturer's recommendations.
- **Temperature:** Operate the battery within its specified temperature range. Extreme temperatures can affect performance and lifespan.

5. MAINTENANCE

The ULTIMATRON JM-12-200 is a "Maintenance-free" AGM battery, meaning it does not require water topping up or electrolyte level checks. However, some general maintenance practices will ensure optimal performance and longevity.

- **Terminal Cleaning:** Periodically inspect battery terminals for corrosion. If corrosion is present, clean them with a wire brush and a mixture of baking soda and water. Rinse with clean water and dry thoroughly.
- **Connection Checks:** Ensure all cable connections remain tight and secure. Loose connections can lead to resistance, heat buildup, and reduced performance.
- **Battery Surface:** Keep the battery's top surface clean and dry to prevent dirt and moisture from creating conductive paths.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged. Store in a cool, dry place, ideally between 10°C and 25°C (50°F and 77°F). Periodically check the voltage and recharge if it drops below 12.5V to prevent sulfation.
- **Avoid Over-Discharge:** While AGM batteries are robust, repeated deep discharges below recommended levels can significantly reduce their lifespan.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, contact ULTIMATRON FRANCE support.

Problem	Possible Cause	Solution
Battery not charging or holding charge	Loose connections, faulty charger, sulfation, internal damage.	Check all connections. Test the charger. If sulfation is suspected, a specialized desulfator might help, but severe cases require replacement. Contact support if internal damage is suspected.
Low voltage output	Battery undercharged, excessive load, faulty wiring.	Ensure battery is fully charged. Reduce load if it exceeds battery capacity. Inspect and repair wiring.
Battery overheating during charge	Overcharging, high charging current, poor ventilation.	Verify charger settings match recommended voltages. Ensure charging current does not exceed 50A. Improve ventilation around the battery. Discontinue charging if overheating persists.

7. SPECIFICATIONS

Attribute	Value
Model	JM-12-200
Battery Type	AGM Deep Cycle, Maintenance-Free
Nominal Voltage	12V
Nominal Capacity (10HR)	200Ah
Cycle Use Voltage	14.4V - 15.0V
Standby Use Voltage	13.5V - 13.8V
Initial Charging Current	50A
Weight	57 Kilograms
Manufacturer	ULTIMATRON FRANCE

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your ULTIMATRON AGM Deep Cycle Battery JM-12-200, please contact ULTIMATRON FRANCE directly or the authorized seller from whom you purchased the product. Keep your proof of purchase for warranty claims.

For further assistance, refer to the official ULTIMATRON FRANCE website or contact their customer service department.