

PowerStar UB1270

PowerStar 12V 7.5Ah AGM Rechargeable Battery Instruction Manual

Model: UB1270

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your PowerStar 12V 7.5Ah Valve Regulated Sealed Lead Acid (VRLA) Absorbent Glass Mat (AGM) rechargeable battery. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your battery.

The PowerStar 12V 7.5Ah battery is a maintenance-free, leak-resistant power source designed for a wide range of applications. Its robust construction provides resistance to shock and vibration, enhancing durability and operational life.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- **Do not charge in a gas-tight container:** Ensure adequate ventilation during charging to prevent gas accumulation.
- **Do not short the battery terminals:** Avoid direct contact between positive and negative terminals with conductive materials to prevent sparks, heat, and potential damage.
- **Do not incinerate:** Batteries contain hazardous materials and should not be disposed of by burning.
- **Recharge after use:** To maintain battery health and capacity, recharge the battery promptly after each use.
- Keep out of reach of children.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling batteries.

3. PRODUCT FEATURES AND BENEFITS

Absorbed Glass Mat technology

***Amazing shock,
vibration, & heat
resistance!***



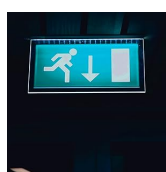
Leak Resistant!

Absorbed Glass Mat (AGM) Technology: Provides superior shock, vibration, and heat resistance. The battery is leak-resistant and can be operated in any position.

AGM Sealed Lead Acid with F2 Terminals



Key Specifications: 12 Volts, 7.5 Amp-hours capacity, weighing 4.45 lbs. Features F2 terminals for secure connections.



Maintenance-Free: Sealed design eliminates the need for water refilling, offering hassle-free operation.



Enhanced Durability: Heavy-duty separators and robust construction contribute to a longer operating lifetime.

4. SETUP AND INSTALLATION

The PowerStar 12V 7.5Ah battery is designed for easy integration into various systems. Follow these guidelines for proper setup:

1. **Unpacking:** Carefully remove the battery from its packaging. Inspect for any visible damage.

2. **Terminal Identification:** Identify the positive (+) and negative (-) terminals. This battery uses T2 (also known as F2) terminals.
3. **Connection:** Connect the battery to your device or system using appropriate cables and connectors. Ensure a secure and tight connection to prevent arcing and power loss. Connect the positive terminal first, then the negative.
4. **Orientation:** The sealed AGM design allows the battery to be operated in any position without leakage. However, for optimal performance and safety, it is generally recommended to install it upright if possible.
5. **Ventilation:** While sealed, ensure the battery is installed in a location with adequate airflow to prevent heat buildup, especially during charging.



Image: PowerStar 12V 7.5Ah AGM battery showing its T2 terminals and labeling.

DIMENSIONS

Made to operate in any position!



L= 5.94" x W= 2.56" x H= 3.98"

Image: Diagram illustrating the dimensions of the PowerStar 12V 7.5Ah battery: 5.94 inches (L) x 2.56 inches (W) x 3.78 inches (H), with terminals extending to 3.98 inches (H).

5. OPERATION AND CHARGING

To ensure the longevity and performance of your PowerStar battery, proper charging is crucial.

- **Charging Voltage Regulation:**
 - **Cycle Use:** For applications where the battery is regularly discharged and recharged, maintain a charging voltage between **14.4V and 15.0V** at 25°C (77°F).
 - **Standby Use:** For applications where the battery is kept fully charged and used as a backup power source, maintain a charging voltage between **13.5V and 13.8V** at 25°C (77°F).
- **Recharge After Use:** Always recharge the battery immediately after discharge to prevent sulfation and extend its lifespan.
- Use a charger specifically designed for 12V sealed lead-acid batteries.

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Video: An informational video highlighting the PowerStar 12V 7.5Ah battery, its features, and applications. This video

emphasizes the product's quality and warranty.

6. MAINTENANCE

The PowerStar 12V 7.5Ah AGM battery is designed to be maintenance-free, meaning it does not require water additions. However, some general care practices will help ensure its longevity:

- **Keep Clean:** Periodically inspect the battery for dirt, dust, or corrosion on the terminals. Clean terminals with a wire brush and a solution of baking soda and water if corrosion is present. Ensure terminals are dry before reconnecting.
- **Regular Charging:** Avoid deep discharges and keep the battery charged, especially if stored for extended periods. A trickle charger or maintenance charger can be used for long-term storage.
- **Temperature:** Store and operate the battery within recommended temperature ranges (typically 20-25°C or 68-77°F) to maximize lifespan. Extreme temperatures can reduce battery performance and life.
- **Physical Inspection:** Check for any physical damage, cracks, or swelling of the battery case. If damage is observed, discontinue use and replace the battery.

7. TROUBLESHOOTING

If you encounter issues with your PowerStar battery, consider the following common troubleshooting steps:

- **Battery Not Holding Charge:**
 - Verify the charger is functioning correctly and is compatible with 12V sealed lead-acid batteries.
 - Check charging voltage settings (Cycle Use vs. Standby Use).
 - Ensure the battery has not been deeply discharged for an extended period, which can cause irreversible damage.
- **Device Not Powering On:**
 - Inspect all connections for looseness or corrosion.
 - Confirm the battery is fully charged.
 - Test the battery voltage with a multimeter to ensure it is within the expected range (above 12V for a charged battery).
- **Reduced Runtime:**
 - Battery capacity naturally degrades over time and with usage cycles.
 - Ensure the battery is being fully charged each time.
 - Operating in extreme temperatures can temporarily reduce capacity.

If problems persist after following these steps, contact PowerStar customer support or a qualified technician.

8. SPECIFICATIONS

Attribute	Value
Brand	PowerStar
Model Number	UB1270

Manufacturer Part Number	AGM1275F2-20PSTAR
Voltage	12 Volts
Capacity	7.5 Amp-hours (Ah)
Terminal Type	T2 (F2 Terminal)
Dimensions (L x W x H)	5.94" x 2.56" x 3.78" (3.98" H with terminals)
Weight	4.45 lbs (2.02 kg)
Technology	Valve Regulated Sealed Lead Acid (AGM)
Number of Cells	6
UPC	844199081545
Manufacturer	BatteryJack Inc.

Compatible Replacement Part Numbers: AVR750U, BP7.5-12, BP8-12, BSL1075, CFM12V6.5, CP1270, CPSBK3, CY0112, D5743, DG12-7, DJW12-7.0, DJW12-7.2, DMU12-7.5, GP1270, GP1272, GT026P4, HE12V7.7, HR1234WF2, HR9-12, HRL1234W, INTERNET 750U, JC1260, JC1265, MX 12070, NP7-12, NP7-12/A, NPX-35, NPX-35FR, Omni1000LCD, OMNI750ISO, Opti RBAT-6, PC1270, PE12V6.5, PE12V7, PE12V7.2, PK1280, PSH-1280FR, PXL12072, RBC17, SH1228W, SL1075, SLA0124, SLA1075, SLA1083, SLA1088, SLA-7-12, SMART750USB, and more.

9. APPLICATIONS

The PowerStar 12V 7.5Ah battery is suitable for a wide array of applications, including but not limited to:

- Emergency Lighting
- Uninterruptible Power Supply (UPS) Systems
- Underwater Fish Finders/Cameras
- Fire & Security Alarm Systems
- Game Feeders & Decoys
- Radio Control Devices
- Robotic Systems
- Invisible Pet Fences
- Communications Equipment
- Telemeters
- Cameras & Photographic Equipment
- Hobby Equipment & Small Toys
- Street Lighting
- Pumps
- Solar Power Systems
- Scooters & Mopeds

10. WARRANTY AND SUPPORT

PowerStar batteries are known for offering a strong warranty in the industry, reflecting confidence in product quality and durability. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official PowerStar website.

For technical support, troubleshooting assistance, or warranty claims, please contact PowerStar customer service through their official channels. Ensure you have your battery model number (UB1270) and purchase details available when contacting support.