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› User Manual for PowerStar PS12-22 AGM Sealed Lead Acid Battery

PowerStar PS12-22-941

User Manual for PowerStar PS12-22 AGM Sealed Lead Acid Battery

Model: PS12-22-941 | Brand: PowerStar

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your PowerStar PS12-22 AGM Sealed Lead Acid Battery. Please read this manual thoroughly before installation or operation to ensure proper handling and to maximize the battery's lifespan and performance. This battery is designed for a wide range of applications requiring reliable 12V power.



Figure 1: Front view of the PowerStar PS12-22 AGM Sealed Lead Acid Battery, showing the brand name, model number, and charging specifications.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the battery or property.

- **Ventilation:** Always operate and charge the battery in a well-ventilated area. Batteries can produce explosive gases.
- **No Gas-Tight Containers:** Do not charge the battery in a gas-tight container. This can lead to pressure buildup and potential rupture.
- **Avoid Short Circuits:** Do not short the battery terminals. This can cause severe sparks, heat, and damage to the battery or connected equipment.
- **No Incineration:** Do not incinerate the battery. Batteries contain hazardous materials and can explode when exposed to fire.
- **Eye Protection:** Always wear appropriate eye protection (safety glasses) when working with batteries.
- **Handling:** Handle the battery with care. Avoid dropping or subjecting it to severe impacts.

- **Disposal:** Dispose of batteries according to local regulations. Do not dispose of with household waste.

3. PRODUCT FEATURES

The PowerStar PS12-22 battery incorporates advanced technology for reliable performance:

- **AGM Technology:** Utilizes Absorbed Glass Mat (AGM) technology for superior performance and durability.
- **Maintenance-Free:** Sealed lead-acid design requires no water additions.
- **Vibration and Shock Resistance:** Engineered to withstand significant shock and vibration, making it suitable for various demanding applications.
- **Leak Resistant:** The sealed design prevents electrolyte leakage, allowing for operation in any position (except inverted).
- **Wide Application Range:** Ideal for scooters, backup power, fire alarms, security systems, UPS, emergency lighting, and more.



Figure 2: Illustration highlighting the Absorbed Glass Mat (AGM) technology, emphasizing its resistance to shock, vibration, heat, and leak-resistant properties.

4. SETUP AND INSTALLATION

Before installation, ensure the battery is fully charged. Always disconnect the negative terminal first when removing an old battery and connect the positive terminal first when installing a new battery.

1. **Inspect the Battery:** Check for any physical damage or leaks.
2. **Prepare Terminals:** Ensure battery terminals and cable connectors are clean and free of corrosion.
3. **Connect Cables:** Connect the positive (+) cable to the positive terminal of the battery. Then, connect the negative (-) cable to the negative terminal. Ensure connections are secure using the provided nut and bolt hardware.
4. **Secure Battery:** Place the battery in a secure location to prevent movement during operation.



Figure 3: Top view of the PowerStar PS12-22 battery, showing the positive (red) and negative (silver) terminals for connection.

5. OPERATION AND CHARGING

This AGM battery is designed for both cycle use and standby use. Proper charging is crucial for battery longevity.

Charging Guidelines:

- **Constant Voltage Charge:** Use a charger designed for AGM batteries with constant voltage regulation.
- **Cycle Use:** For applications where the battery is regularly discharged and recharged, charge at 14.4-15.0V (at 25°C).
- **Standby Use:** For applications where the battery is kept at full charge and used as a backup, maintain at 13.5-13.8V (at 25°C).
- **Recharge After Use:** Always recharge the battery promptly after each use to prevent deep discharge, which can shorten its lifespan.

Typical Applications:

The PowerStar PS12-22 battery is suitable for a variety of applications, including but not limited to:

- Scooters
- Backup Power Systems
- Fire Alarms and Security Systems
- UPS Battery Backup
- Exit Signs and Emergency Lighting
- Testing Equipment
- Electric Scooters and Mobility Wheelchairs
- Electric Gates

6. MAINTENANCE

While the PowerStar PS12-22 is a maintenance-free battery, following these guidelines will help ensure optimal performance and longevity:

- **Keep Clean:** Periodically clean the battery casing and terminals with a damp cloth to remove dust and dirt. Ensure terminals are free of corrosion.
- **Check Connections:** Regularly inspect terminal connections to ensure they are tight and secure. Loose connections can cause resistance and heat buildup.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged before storage. Store in a cool, dry place away from direct sunlight and extreme temperatures. Recharge every 3-6 months during storage to prevent self-discharge.
- **Avoid Deep Discharge:** Do not allow the battery to fully discharge. Recharge it as soon as possible after use.

7. TROUBLESHOOTING

If you encounter issues with your PowerStar PS12-22 battery, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Battery not holding charge	Undercharging; sulfation; end of life	Ensure proper charging voltage and duration. If sulfation is severe or battery is old, replacement may be necessary.
Low voltage output	Battery discharged; loose connections	Recharge the battery. Check and tighten all terminal connections.
Battery overheating during charge	Overcharging; faulty charger; internal short	Verify charger voltage and current settings. Discontinue charging if overheating persists and consult a professional.
Shortened battery life	Frequent deep discharges; improper charging; extreme temperatures	Avoid deep discharges. Follow recommended charging voltages. Store and operate within specified temperature ranges.

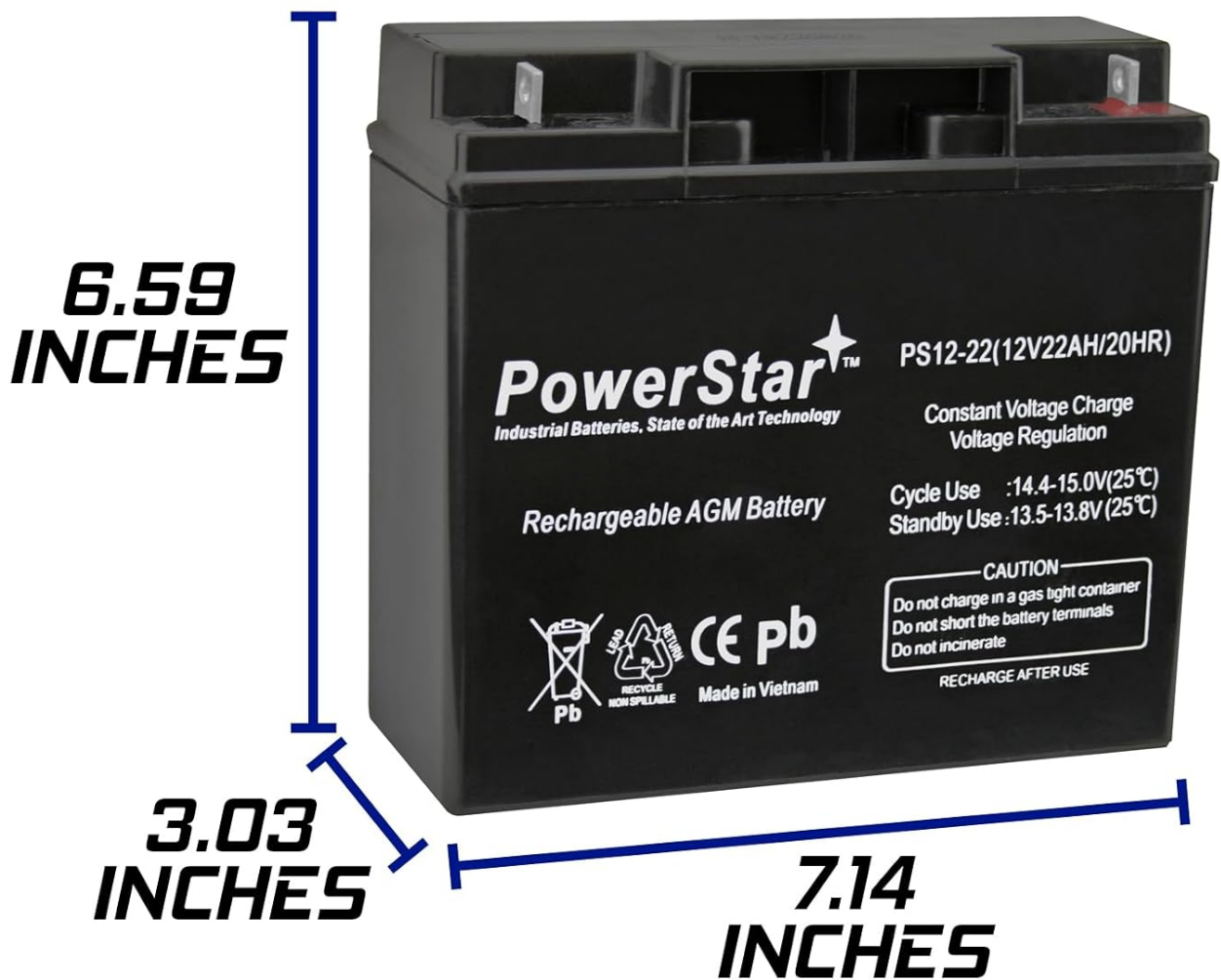
8. SPECIFICATIONS

Detailed technical specifications for the PowerStar PS12-22 AGM Sealed Lead Acid Battery:

Attribute	Value
Model Number	PS12-22-941
Voltage	12V
Capacity	22Ah
CCA (Cold Cranking Amps)	275 CCA
Terminal Type	Nut & Bolt (hardware included)
Length	7.14 inches (181.35 mm)
Width	3.03 inches (76.96 mm)
Height	6.59 inches (167.39 mm)
Weight	13.66 lbs (6.2 Kg)
Battery Type	Sealed Lead Acid (AGM)
Manufacturer	BatteryJack Inc.
UPC	840894126192

DIMENSIONS

Made to operate in any position!



L= 7.14" x W= 3.03" x H= 6.59"

Figure 4: Visual representation of the PowerStar PS12-22 battery dimensions: Length 7.14 inches, Width 3.03 inches, Height 6.59 inches.

9. WARRANTY AND SUPPORT

Your PowerStar PS12-22 battery comes with a **2-Year Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For warranty claims or technical support, please contact the manufacturer, BatteryJack Inc., or your authorized PowerStar dealer.

For further assistance, please refer to the contact information provided with your purchase or visit the official PowerStar website.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question