

Vici VB18-12

Vici Battery VB18-12 12V 18AH Sealed Lead Acid Battery Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Vici Battery VB18-12 12V 18AH Sealed Lead Acid (SLA) rechargeable battery. The VB18-12 is designed to be a reliable power source, suitable as a replacement for various applications, including the Stanley STA-J45C09 Stanley 450 Amp Jump Starter with Compressor Battery. Please read this manual thoroughly before installation and operation.



Image 1.1: The Vici Battery VB18-12, a 12V 18AH Sealed Lead Acid battery, showcasing its design and key specifications printed on the label.

2. SAFETY INFORMATION

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

- DO NOT SHORT THE BATTERY TERMINALS. This can cause severe damage to the battery and potential injury.
- DO NOT CHARGE IN A SEALED CONTAINER. Ensure adequate ventilation during charging to prevent gas buildup.
- DO NOT INCINERATE. Batteries contain hazardous materials and should not be disposed of in fire.
- RECHARGE AFTER USE. To maintain optimal battery life and performance, 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.
- If battery acid comes into contact with skin or eyes, flush immediately with plenty of water and seek medical attention.

Legal Disclaimer:

This battery is typically compatible with the brand or device listed, but it is the responsibility of the user to examine and verify that the specifications meet the application. VICI Battery products are not affiliated with or authorized by the brand or device listed on this page. VICI Battery products are listed as a suitable replacement for the brand listed.

3. PRODUCT OVERVIEW

The Vici Battery VB18-12 is a high-quality, maintenance-free Sealed Lead Acid (SLA) battery designed for reliable performance. Key features include:

- **Genuine Vici Battery:** The VB18-12 SLA is a 12V 18AH rechargeable battery.
- **AGM Technology:** The electrolyte is absorbed between the plates and suspended in a fine fiberglass mat. This design, along with the valve-regulated, spill-proof construction, ensures trouble-free and safe operation in any orientation.
- **Ready to Use:** Your battery arrives charged and prepared for immediate installation.

4. SPECIFICATIONS

The following table details the technical specifications for the Vici Battery VB18-12:

Specification	Value
Model	VB18-12
Voltage	12V
Capacity	18AH (20 Hour Rate)
Dimensions (L x W x H)	7.12 inches x 3.03 inches x 6.57 inches (18.1 cm x 7.7 cm x 16.7 cm)
Weight	12 pounds (5.4 kg)
Terminal Type	Nut & Bolt (NB/T1 Type)
Manufacturer	VICI Battery

VB18-12

Size & Dimensions

12V 18AH SLA Battery



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6.57 in
(16.7 cm)



3.03 in
(7.7 cm)



7.12 in
(18.1 cm)

Image 4.1: Visual representation of the Vici Battery VB18-12 with its precise dimensions: 7.12 inches (length), 3.03 inches (width), and 6.57 inches (height).

Technical Specifications

12V 18AH SLA Battery


12 lbs
5.4 kg


12 Volt
1200 Watt


18 Ah
20 Hour


NB/T1 Type
Terminal



Image 4.2: Detailed technical specifications for the Vici Battery VB18-12, including weight, voltage, capacity, and terminal type.

5. SETUP AND INSTALLATION

The Vici Battery VB18-12 arrives charged and ready for installation. Follow these steps for proper setup:

1. **Inspect the Battery:** Before installation, visually inspect the battery for any signs of damage, cracks, or leaks. Do not install a damaged battery.
2. **Prepare the Installation Area:** Ensure the area where the battery will be installed is clean, dry, and well-ventilated.
3. **Connect Terminals:** The battery features nut and bolt terminals. Connect the positive (+) terminal of the battery to the positive cable of your device, and the negative (-) terminal to the negative cable. Ensure connections are secure and tight to prevent arcing and ensure optimal power transfer.
4. **Secure the Battery:** Place the battery in a stable position, ensuring it is properly secured to prevent movement or vibration during operation.

Note:

- Nuts, bolts, and lock washers are included with the battery for terminal connection.

- A wire harness is NOT included and must be sourced separately if required for your application.



VICI BATTERY

CONQUER POWER



Nuts, bolts and lock washers included

Image 5.1: The included nuts, bolts, and lock washers for securing the battery terminals, ensuring a reliable connection.

6. OPERATING INSTRUCTIONS

The Vici Battery VB18-12 is a rechargeable, maintenance-free battery. Follow these guidelines for optimal operation and charging:

- **Initial Charge:** The battery arrives charged and ready for use. However, for maximum lifespan, a full charge before the first heavy use is recommended.
- **Charging Voltage (at 25°C):**
 - **Standby Use:** 13.6 - 13.8V (Initial Current: <2.7A)
 - **Cyclic Use:** 14.5 - 14.9V (Initial Current: <5.4A)
- **Recharge After Use:** Always recharge the battery promptly after each discharge cycle to prevent sulfation and extend its overall life.
- **Avoid Deep Discharge:** While the battery can withstand deep discharges, frequent deep discharges can shorten its lifespan. Recharge before the battery is fully depleted.
- **Temperature:** Operate and charge the battery within recommended temperature ranges (typically 20-25°C or 68-77°F) for best performance. Extreme temperatures can affect capacity and lifespan.

7. MAINTENANCE

The Vici Battery VB18-12 is designed to be a maintenance-free Sealed Lead Acid (SLA) battery, meaning it does not require water additions or electrolyte checks. However, some general care practices will help ensure its longevity:

- **Keep Clean:** Periodically inspect the battery terminals and casing. Keep them clean and free of dirt, dust, and corrosion. Use a damp cloth to wipe down the casing.
- **Check Connections:** Ensure that the terminal connections remain tight and secure. Loose connections can lead to power loss and heat buildup.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and store it in a cool, dry place. Recharge the battery every 3-6 months during storage to prevent self-discharge and maintain its charge.
- **Avoid Physical Damage:** Protect the battery from impacts or drops that could damage the casing or internal components.

8. TROUBLESHOOTING

If you encounter issues with your Vici Battery VB18-12, consider the following common troubleshooting steps:

- **Battery Not Holding Charge:**
 - Ensure the charger is functioning correctly and is compatible with 12V SLA batteries.
 - Verify that the charging voltage and current settings are within the recommended ranges (refer to Section 6).
 - Check for proper terminal connections; loose connections can impede charging.
 - If the battery is old, its capacity may have naturally degraded over time.
- **Device Not Powering On/Intermittent Power:**
 - Confirm the battery is fully charged.
 - Inspect all cable connections to the battery and the device for tightness and corrosion.
 - Check the device's fuse or circuit breaker, if applicable.
 - Ensure the battery's voltage is appropriate for the device's requirements.
- **Overheating During Charge/Discharge:**
 - Immediately disconnect the battery from the charger or device.
 - Ensure adequate ventilation around the battery.
 - Verify that the charging current is not excessively high.
 - If overheating persists, discontinue use and contact support.

For issues not resolved by these steps, please contact Vici Battery customer support.

9. WARRANTY AND SUPPORT

Your Vici Battery VB18-12 is backed by a comprehensive warranty and support:

- **Warranty:** The battery comes with a full 1-year warranty from the date of purchase, covering manufacturing defects.
- **Return Policy:** A 30-day refund policy is available from the point of purchase. Please refer to your retailer's specific return guidelines.
- **Customer Support:** For technical assistance, warranty claims, or any other inquiries, please contact Vici

Battery customer support through your purchase channel or the official Vici Battery website.

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