

VECTOR VECBC2

VECTOR VECBC2 2 Amp Battery Charger/Maintainer User Manual

Model: VECBC2

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your VECTOR VECBC2 2 Amp Battery Charger/Maintainer. This device is designed to charge and maintain 6-Volt and 12-Volt lead-acid batteries (flooded, GEL, AGM) at optimal capacity, promoting peak performance and extended lifespan. Please read this manual thoroughly before use and retain it for future reference.

2. IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the charger or battery.

- **Read all instructions:** Before using the charger, read all instructions and cautionary markings on the charger, the battery, and the product using the battery.
- **Ventilation:** Ensure the charging area is well-ventilated. Batteries can produce explosive gases.
- **Eye Protection:** Always wear eye protection when working near batteries.
- **Avoid Sparks:** Do not smoke or allow sparks or flames in the vicinity of the battery or engine.
- **Correct Voltage:** Ensure the charger is set to the correct voltage (6V or 12V) for the battery being charged.
- **Polarity:** Connect the charger output clips to the battery terminals with correct polarity: RED to positive (+), BLACK to negative (-). Reverse polarity can cause damage.
- **Disconnect Power:** Always disconnect the AC power from the charger before connecting or disconnecting the battery clamps.
- **Indoor Use:** This charger is designed for indoor use. Do not expose it to rain or excessive moisture.
- **Not for Lithium Batteries:** This charger is specifically designed for lead-acid batteries (flooded, GEL, AGM). It is not compatible with lithium-based batteries.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- VECTOR VECBC2 2 Amp Battery Charger/Maintainer Unit
- Battery Clamps (with quick connector)
- Ring Terminals (with quick connector)
- User Manual (this document)



Image 1: Included components of the VECBC2 charger. This shows the main charger unit, the quick-connect battery clamps, and the quick-connect ring terminals.

4. PRODUCT FEATURES

The VECTOR VECBC2 Battery Charger/Maintainer offers the following key features:

- **6V/12V Selector:** Easily switch between 6-Volt and 12-Volt charging modes to match your battery's requirements.
- **2 Amp Charging:** Provides a steady 2 Amp charge for efficient battery maintenance and charging.
- **Quick Connectors:** Allows for easy interchangeability between battery clamps and ring terminals.
- **Low Voltage Compensation:** Automatically adjusts for voltage drops caused by extension cords or other factors, ensuring consistent charging.
- **12 ft. Cable Reach:** Long cable provides flexibility for connecting to batteries.

- **Charging Status Indicators:** LED lights indicate charging progress and error conditions.
- **Reverse Connection Indicator:** A dedicated LED warns of incorrect battery polarity connection.
- **Compact Design:** Small footprint for convenient storage and portability.



Image 2: Front panel of the VECBC2 charger, highlighting the voltage selector switch and status indicator lights.

5. SETUP INSTRUCTIONS

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a baking soda solution.
2. **Select Connection Type:** Choose either the battery clamps or the ring terminals based on your application. Connect the chosen accessory to the charger's quick connector port.
3. **Select Voltage:** Use the red switch on the charger to select the appropriate voltage (6V or 12V) for your battery. **Do not connect to AC power yet.**
4. **Connect to Battery:**
 - Connect the **RED** positive (+) clamp/ring terminal to the positive (+) battery terminal.
 - Connect the **BLACK** negative (-) clamp/ring terminal to the negative (-) battery terminal.
 - Ensure connections are secure.
5. **Connect to AC Power:** Plug the charger's AC power cord into a standard 120V AC electrical outlet.



Image 3: Side view illustrating the quick connector port for attaching battery clamps or ring terminals.

6. OPERATING INSTRUCTIONS

Once connected, the charger will automatically begin the charging process.

- **Charging Indication:** The green LED indicator will blink during the charging phase.
- **Fully Charged Indication:** When the battery is fully charged, the green LED will stop blinking and remain solid. The charger will then switch to maintenance mode to prevent overcharging.
- **Error Indication:** If the red "Reverse Connection" LED illuminates, immediately disconnect the charger from AC power and correct the battery connections.
- **Maintenance Mode:** The charger can be left connected to the battery indefinitely in maintenance mode to keep it at optimal charge.

Disconnecting the Charger:

1. Unplug the charger's AC power cord from the electrical outlet.
2. Disconnect the BLACK negative (-) clamp/ring terminal from the battery.
3. Disconnect the RED positive (+) clamp/ring terminal from the battery.

7. MAINTENANCE

- **Cleaning:** Disconnect the charger from all power sources before cleaning. Wipe the case with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Cable Care:** Inspect cables and connectors regularly for damage. Replace any damaged components immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on.	No AC power; faulty outlet.	Check AC power connection. Test outlet with another device.
Red "Reverse Connection" LED is on.	Incorrect battery polarity.	Disconnect AC power, then reconnect RED to positive (+) and BLACK to negative (-).
Green LED is blinking but battery is not charging.	Poor connection to battery; deeply discharged battery.	Ensure clamps/terminals are securely connected. For deeply discharged batteries, it may take longer to initiate charging or the battery may be beyond recovery.
Charger gets warm during operation.	Normal operation.	This is normal. Ensure adequate ventilation around the charger.

9. SPECIFICATIONS

- **Model:** VECBC2
- **Input Voltage:** 120V AC, 60Hz
- **Output Voltage:** 6V DC / 12V DC (selectable)
- **Output Current:** 2 Amps
- **Battery Types:** 6V and 12V Lead-Acid (Flooded, GEL, AGM)
- **Dimensions:** 7.4 x 3.7 x 1.8 inches
- **Weight:** 1.1 pounds
- **Cable Length:** 12 feet (output cables)

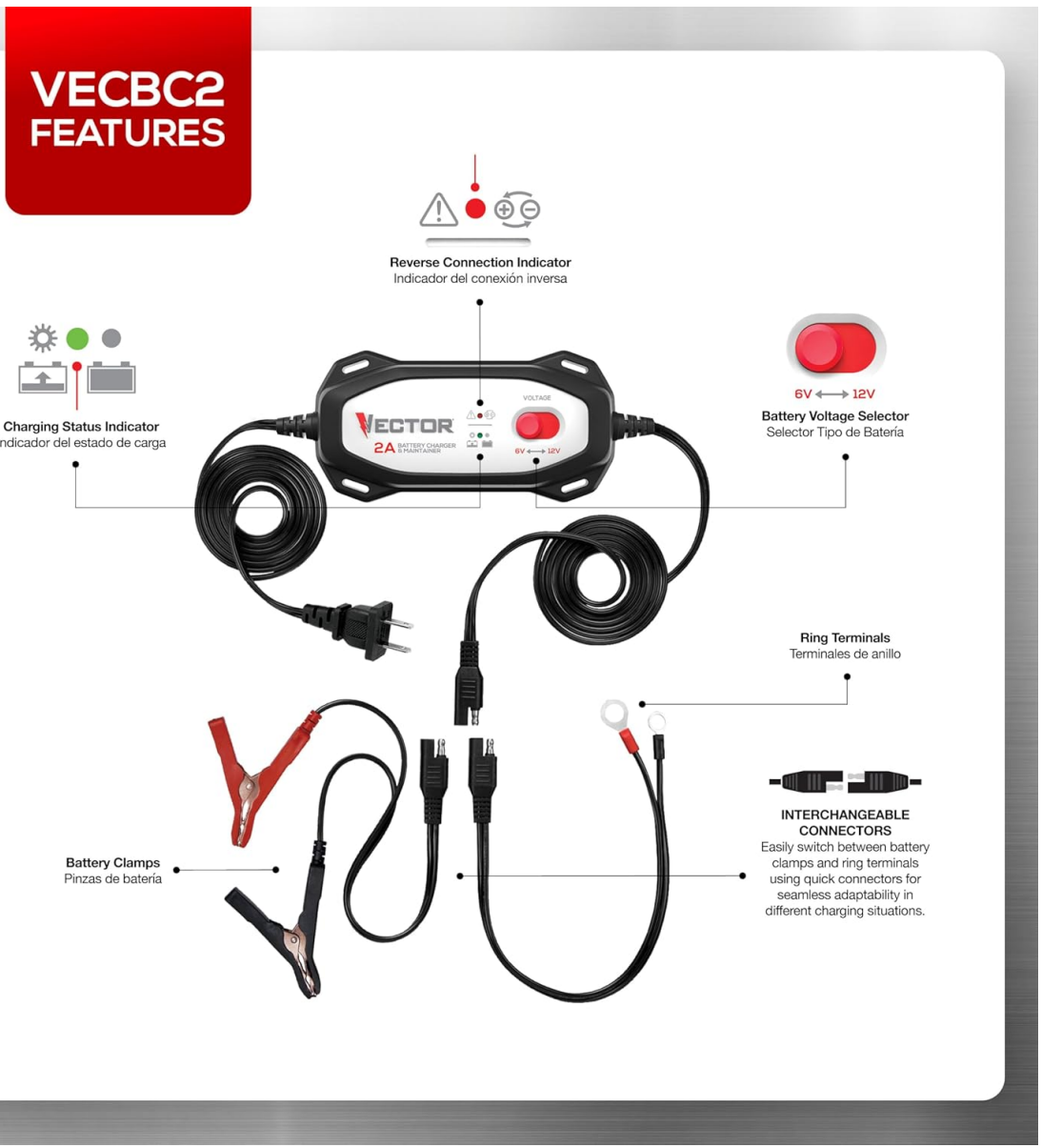


Image 4: Rear view of the VECBC2 charger, indicating potential wall-mounting options and product information label.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact VECTOR customer service. Keep your proof of purchase for warranty claims.
Manufacturer: Baccus Global





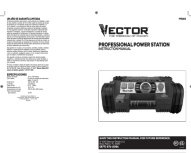
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Related Documents - VECBC2



[Vector BC15BV 15 Amp 12-Volt Battery Charger Instruction Manual](#)

Instruction manual for the Vector BC15BV 15 Amp 12-Volt automatic battery charger. Covers safety, operation, features like engine start and alternator check, troubleshooting, and maintenance by Baccus Global LLC.

	<p><u>VECTOR PPRH5V Professional Power Station Instruction Manual</u></p> <p>This manual provides comprehensive instructions for operating and maintaining the VECTOR PPRH5V Professional Power Station. It covers features, safety guidelines, jump-starting, air compression, AC/DC/USB power output, charging, troubleshooting, and specifications.</p>
	<p><u>Vector VEC280 Rechargeable Inflator/Spotlight User Manual and Warranty</u></p> <p>Comprehensive user manual and warranty information for the Vector VEC280 Rechargeable Inflator/Spotlight. Includes specifications, safety instructions, operating procedures, maintenance, and troubleshooting for this versatile 12V DC portable power supply.</p>
	<p><u>Vector SS6LV Lithium Jump-Starter & USB Power Bank Instruction Manual</u></p> <p>Comprehensive instruction manual for the Vector SS6LV Lithium Jump-Starter & USB Power Bank, covering safety guidelines, operating instructions, charging procedures, care and maintenance, troubleshooting, and specifications.</p>
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