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› BLACK+DECKER BM3B Fully Automatic 6V/12V Battery Charger/Maintainer Instruction Manual

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BLACK+DECKER BM3B Fully Automatic 6V/12V Battery Charger/Maintainer Instruction Manual

Model: BM3B

INTRODUCTION

The BLACK+DECKER BM3B high frequency battery charger and maintainer is designed to keep batteries in stored vehicles and various battery applications at optimal capacity. It charges 6-volt and 12-volt AGM, GEL, and WET batteries, making it suitable for RVs, specialty vehicles, antique and classic cars, marine deep cycle batteries, motorcycles, lawn mowers, ATVs, snowmobiles, and personal watercrafts.

IMPORTANT SAFETY INFORMATION

WARNING: Cancer and reproductive harm. For more information go to www.P65Warnings.ca.gov.

Always read and understand all safety warnings and instructions before operating this product. Failure to do so may result in electric shock, fire, or serious injury.

- Ensure proper ventilation when charging batteries.
- Avoid contact with battery acid. Wear protective eyewear and clothing.
- Do not charge frozen batteries.
- Keep out of reach of children.
- Built-in circuit protection guards against overcharging, reverse polarity, or short circuit.

PACKAGE CONTENTS

Your BLACK+DECKER BM3B Battery Charger/Maintainer package includes:

- 1 x BLACK+DECKER BM3B Charger/Maintainer Unit
- 1 x Set of Battery Clamps
- 1 x Set of O-Ring Terminals

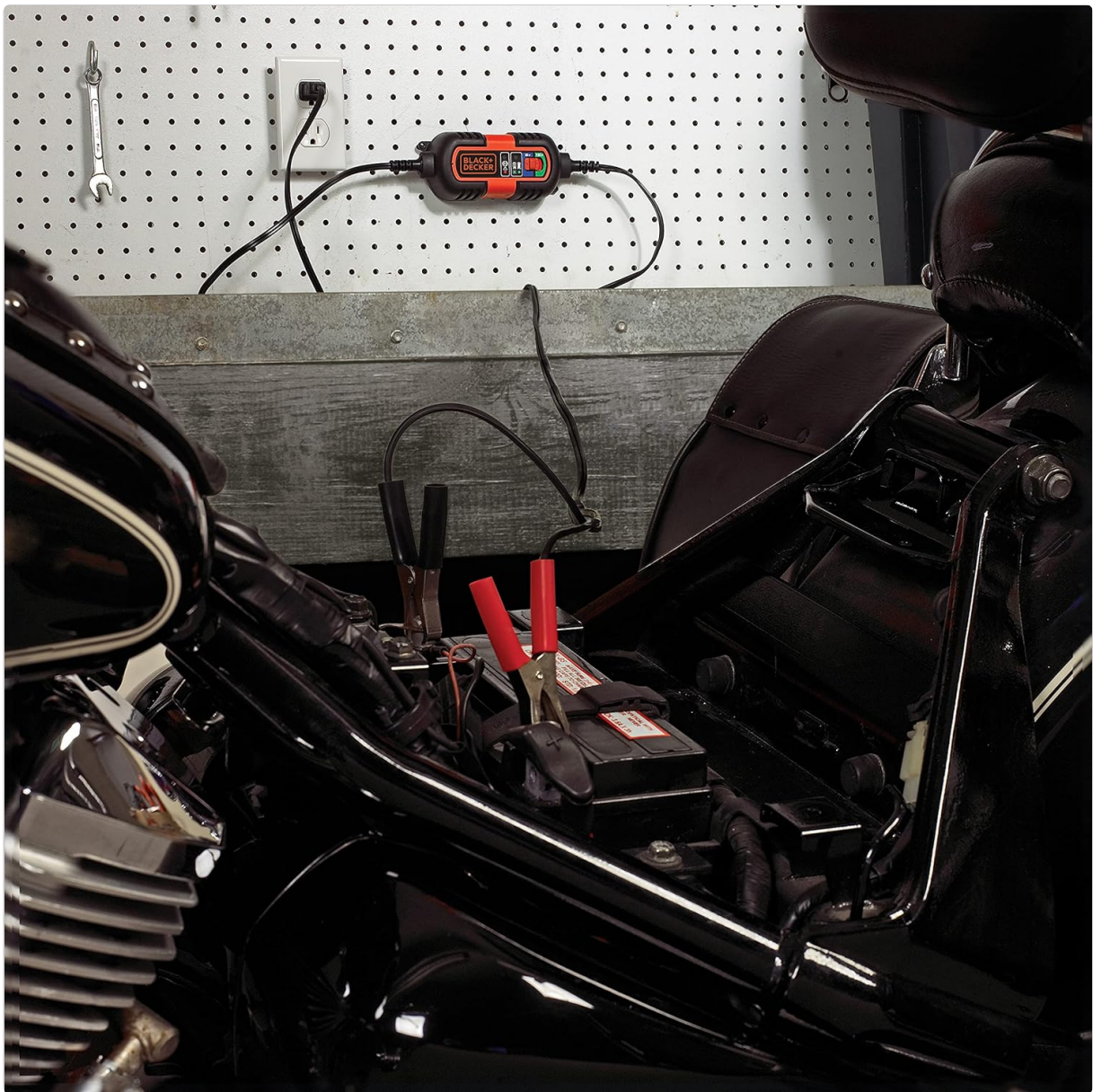


Image: The BLACK+DECKER BM3B charger unit shown with its accessories, including battery clamps and O-ring terminals, highlighting the quick connector system.

PRODUCT FEATURES

- **Versatile Charging:** Charges and maintains 12-volt and 6-volt AGM, GEL, and WET batteries.
- **Easy Connection:** Connects to vehicle battery using either the included battery clips or O-ring terminals.
- **Automatic Operation:** Automatically stops charging when the battery is fully charged or topped off, then switches to float mode monitoring to maintain optimal charge.
- **Safety Protection:** Features built-in circuit protection against overcharging, reverse polarity, and short circuits. ETL certified for performance and safety.
- **Convenient Mounting:** Includes a built-in mounting bracket for easy and secure placement.



Image: A close-up view of the BLACK+DECKER BM3B charger, highlighting the 6V/12V voltage selector switch and the indicator lights for charging status and reverse connection warning.

SETUP AND CONNECTION

1. **Choose Connection Method:** Decide whether to use the battery clamps for temporary connection or the O-ring terminals for a more permanent setup.
2. **Select Voltage:** Slide the voltage selector switch on the charger unit to either **6V** or **12V**, matching the voltage of the battery you intend to charge.
3. **Connect to Battery:**
 - For battery clamps: Connect the red clamp to the positive (+) battery terminal and the black clamp to the negative (-) battery terminal.
 - For O-ring terminals: Securely attach the red O-ring to the positive (+) battery terminal and the black O-ring to the negative (-) battery terminal.
4. **Connect Charger to Power:** Plug the charger's AC power cord into a standard electrical outlet.

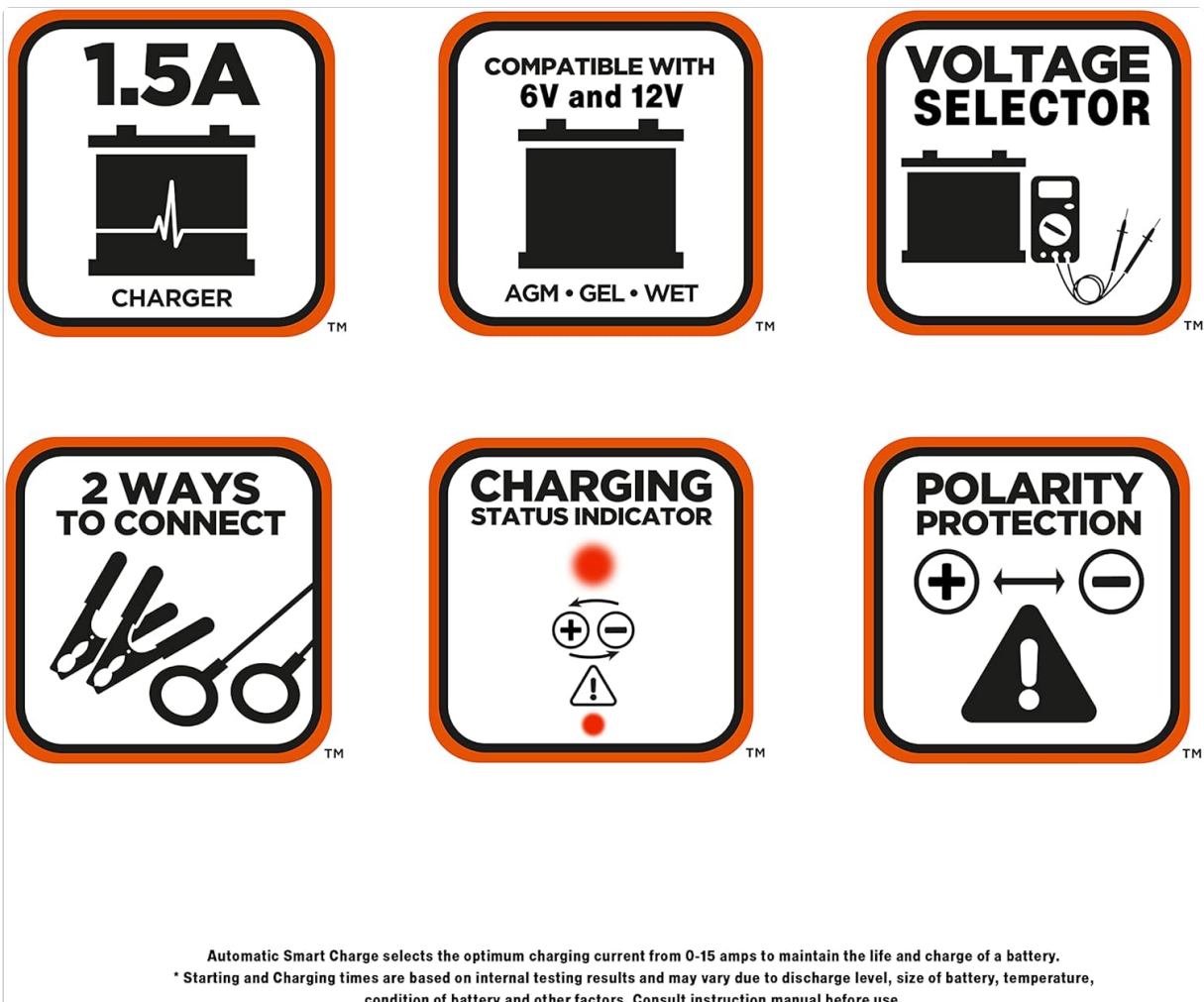


Image: The BLACK+DECKER BM3B charger connected to a motorcycle battery using the provided battery clamps, with the charger unit mounted on a nearby wall.

OPERATING INSTRUCTIONS

Once properly connected, the BLACK+DECKER BM3B charger will automatically begin the charging process. The indicator lights on the unit will provide feedback on the charging status:

- **Charging Indicator:** A red light indicates the battery is currently charging.
- **Fully Charged/Float Mode Indicator:** A green light indicates the battery is fully charged and the unit has switched to float mode, maintaining the charge without overcharging.
- **Reverse Connection Warning:** A flashing red light or specific indicator will alert you to an incorrect polarity connection. Disconnect immediately and re-connect correctly.

The charger is designed to prevent overcharging, reverse polarity, and short circuits, ensuring safe operation.

CHARGING TIME REFERENCE

The following chart provides approximate charging times for various battery types. Actual charging times may vary based on battery condition, temperature, and discharge level. This charger is recommended for maintenance, especially for larger batteries.



6V&12V
Battery Maintainer/Charger

Charging Time Reference Chart

BM3B

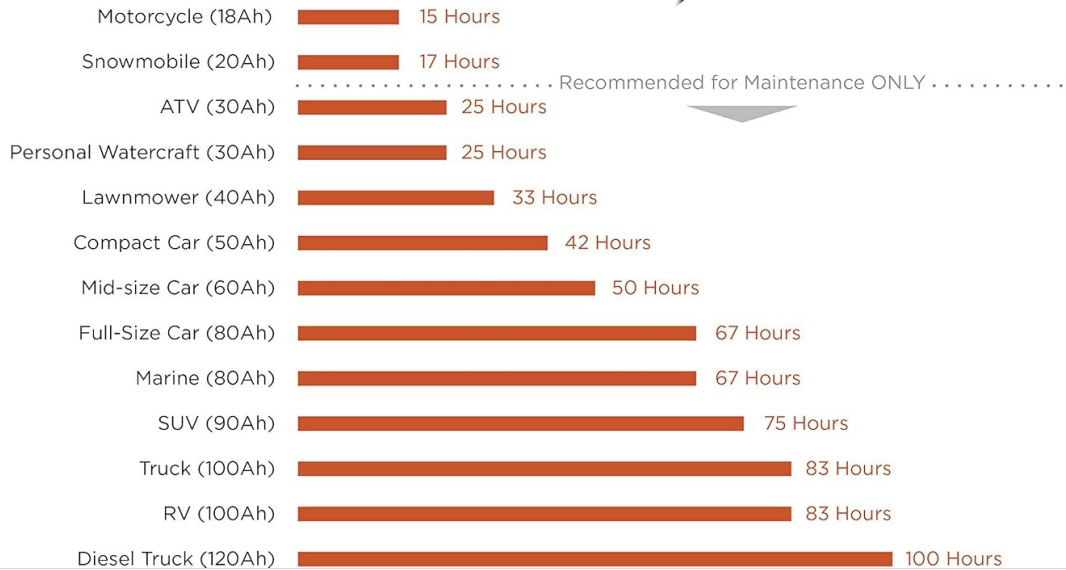


Image: A bar chart illustrating estimated charging times for different battery capacities (Ah) for vehicles like motorcycles, snowmobiles, ATVs, cars, SUVs, trucks, and RVs, noting that it's recommended for maintenance only for larger capacities.

MAINTENANCE

- Keep the charger clean and dry. Wipe with a soft, dry cloth.
- Store the charger in a cool, dry place when not in use.
- Regularly inspect cables and connectors for any damage. Replace if frayed or broken.
- Ensure battery terminals are clean and free of corrosion for optimal connection.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; faulty connection.	Check outlet with another device. Ensure power cord is securely plugged in.
Red light flashing (Reverse Polarity).	Incorrect connection to battery terminals.	Disconnect charger from battery and power. Reconnect red to positive (+), black to negative (-).
Battery not charging.	Incorrect voltage selection; deeply discharged battery; faulty battery.	Verify 6V/12V switch matches battery. For deeply discharged batteries, it may take longer or require a specialized recovery charger. Test battery condition.
Charger gets wet and stops working.	Exposure to moisture.	Ensure the charger is kept in a sheltered, dry location. If wet, disconnect power and allow to dry completely before attempting to use again.

SPECIFICATIONS

- **Model Number:** BM3B
- **Brand:** BLACK+DECKER
- **Product Dimensions:** 5 x 1.6 x 2.6 inches (5"D x 1.6"W x 2.6"H)
- **Item Weight:** 1.2 pounds
- **Output Voltage:** 12 Volts (DC)
- **Battery Compatibility:** 6V and 12V AGM, GEL, and WET batteries
- **Manufacturer:** Baccus Global LLC
- **First Available:** March 30, 2011



Image: A side view of the BLACK+DECKER BM3B charger, illustrating its compact dimensions (5.5" length, 2.8" height, 1.6" width) and a weight icon indicating 0.70 lbs.

WARRANTY AND SUPPORT

The BLACK+DECKER BM3B Battery Charger/Maintainer includes a limited 1-year manufacturer warranty. For technical support, warranty claims, or further assistance, please refer to the contact information provided in your product packaging or visit the official BLACK+DECKER support website.

You can also visit the [BLACK+DECKER Store on Amazon](#) for more product information and accessories.