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› Einhell CE-BC 10 M Smart Battery Charger User Manual

Einhell CE-BC 10 M

Einhell CE-BC 10 M Smart Battery Charger

Model: CE-BC 10 M | Brand: Einhell

INTRODUCTION

The Einhell CE-BC 10 M is an intelligent battery charger designed for various types of 6V/12V batteries, including gel, AGM, maintenance-free, and low-maintenance lead-acid batteries. This device features microprocessor control for a multi-stage charging cycle, ensuring optimal battery care and extended lifespan. It also includes a specialized winter charging mode for effective operation in temperatures below 5°C.

SAFETY INSTRUCTIONS

Please read these safety instructions carefully before using the battery charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the charger is connected to a grounded outlet. Do not expose the charger to rain or wet conditions. Never operate the charger with a damaged cord or plug.
- **Battery Safety:** Always wear eye protection and protective clothing when working with batteries. Batteries can produce explosive gases; ensure adequate ventilation. Do not charge frozen batteries.
- **Connection:** Connect the battery charger to the battery before plugging it into the power outlet. Disconnect from the power outlet before disconnecting from the battery.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.
- **Ventilation:** Ensure proper ventilation during charging to prevent the accumulation of explosive gases.

PRODUCT OVERVIEW

The Einhell CE-BC 10 M charger is equipped with advanced features for efficient and safe battery charging.

- **Microprocessor Control:** The charging process is controlled and monitored by a microprocessor, allowing for a multi-stage charging cycle. This ensures precise and gentle charging, optimizing battery performance and longevity.
- **Battery Compatibility:** Suitable for a wide range of 6V/12V batteries, including gel, AGM, maintenance-free, and

low-maintenance lead-acid types.

- **Winter Charging Mode:** Activates automatically or can be manually selected for charging at outdoor temperatures below 5°C, ensuring effective charging even in cold conditions.
- **Protection Functions:** Features protection against overcharge, short circuit, and reverse polarity to ensure safe operation.

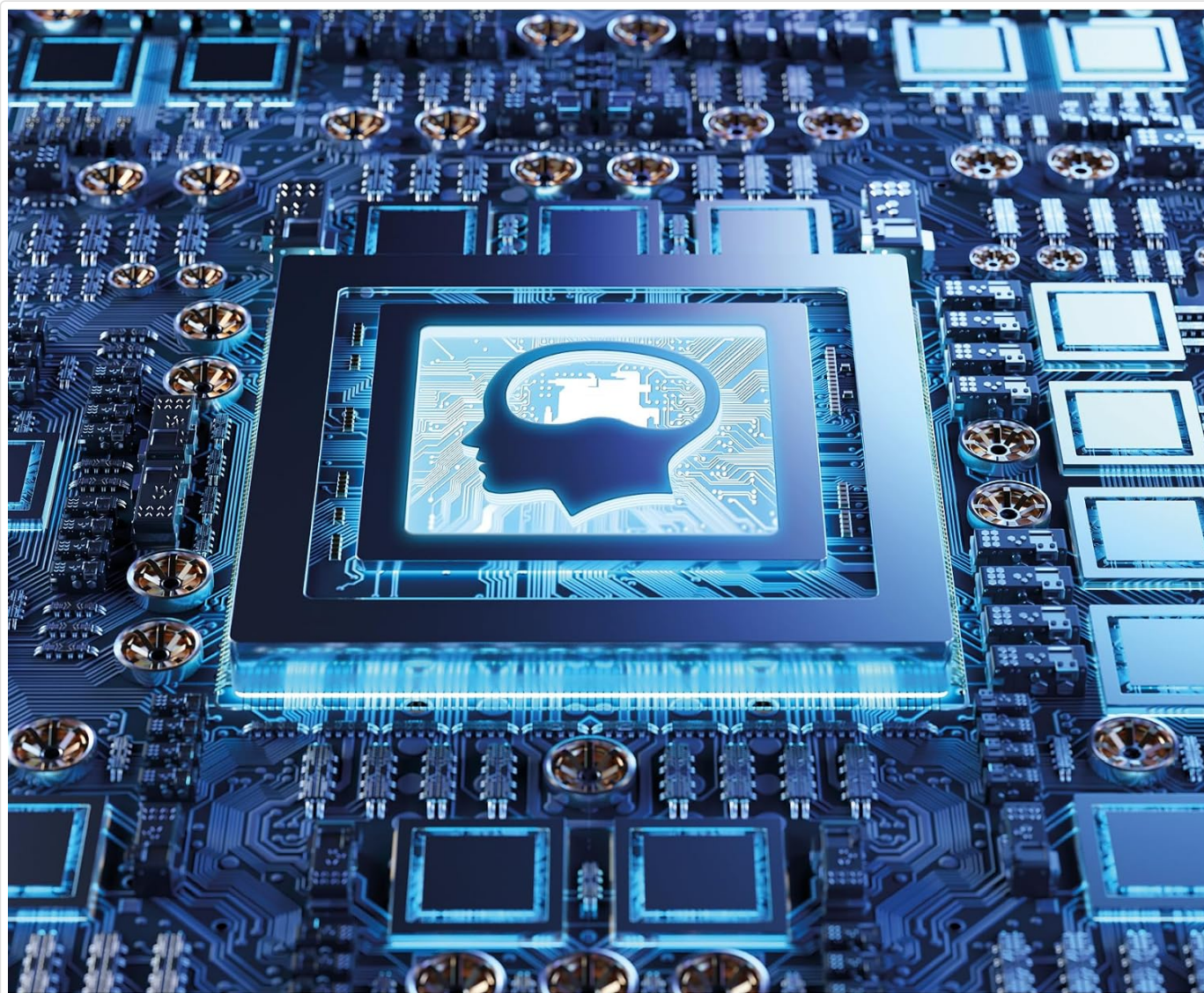


Image: Microprocessor-controlled charging ensures optimal battery care.

SETUP

Follow these steps to set up your Einhell CE-BC 10 M battery charger:

1. **Preparation:** Ensure the battery is clean and free of corrosion. If charging a battery in a vehicle, ensure the vehicle's ignition is off and all accessories are disconnected.
2. **Connect to Battery:** First, connect the red positive (+) clamp of the charger to the positive (+) terminal of the battery. Then, connect the black negative (-) clamp to the negative (-) terminal of the battery. If charging a battery in a vehicle, connect the negative clamp to the vehicle chassis away from the battery and fuel line.
3. **Connect to Power:** Plug the charger's power cord into a standard 240V AC electrical outlet.
4. **Initial Check:** The charger will perform a self-test and display the current battery status.



Image: Proper connection of the charger to a car battery.

OPERATING INSTRUCTIONS

Once connected, the charger will automatically begin the charging process based on the battery type and condition. The display will show the charging status.

- **Automatic Charging:** The microprocessor automatically detects the battery voltage (6V or 12V) and selects the appropriate charging program.
- **Winter Charging Mode:** For optimal charging in cold environments (below 5°C), the charger may automatically activate or allow manual selection of the winter charging mode. This mode adjusts charging parameters for better performance in low temperatures.
- **Charging Stages:** The charger employs a multi-stage charging cycle, including desulfation, soft start, bulk charge, absorption, and float charge, to ensure a complete and safe charge.
- **Completion:** The charger will indicate when the battery is fully charged. At this point, it will switch to a maintenance (float) charge to keep the battery at optimal capacity without overcharging.

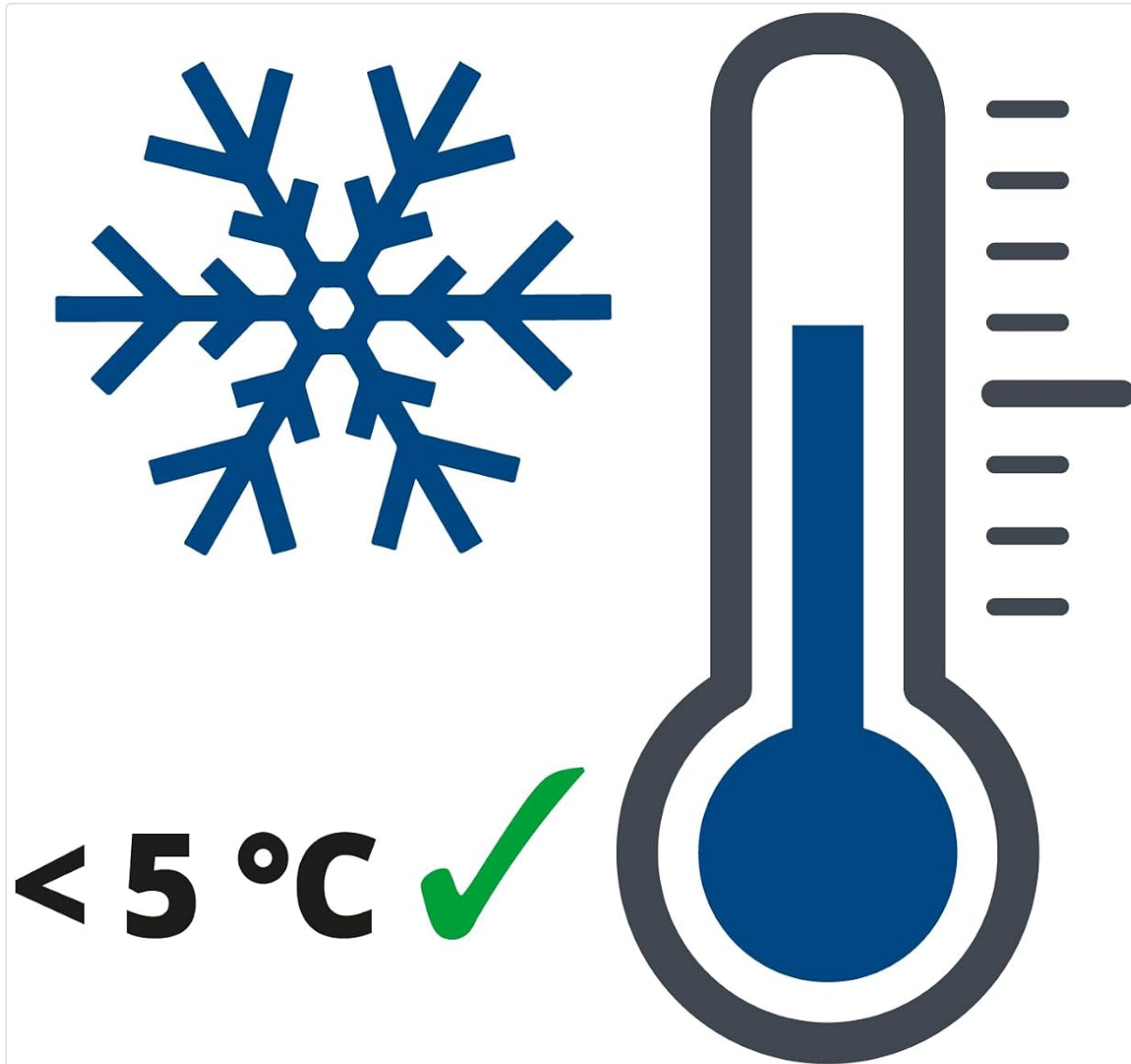


Image: Winter charging mode for temperatures below 5°C.



Image: The charger is suitable for use in cold environments, such as a garage in winter.

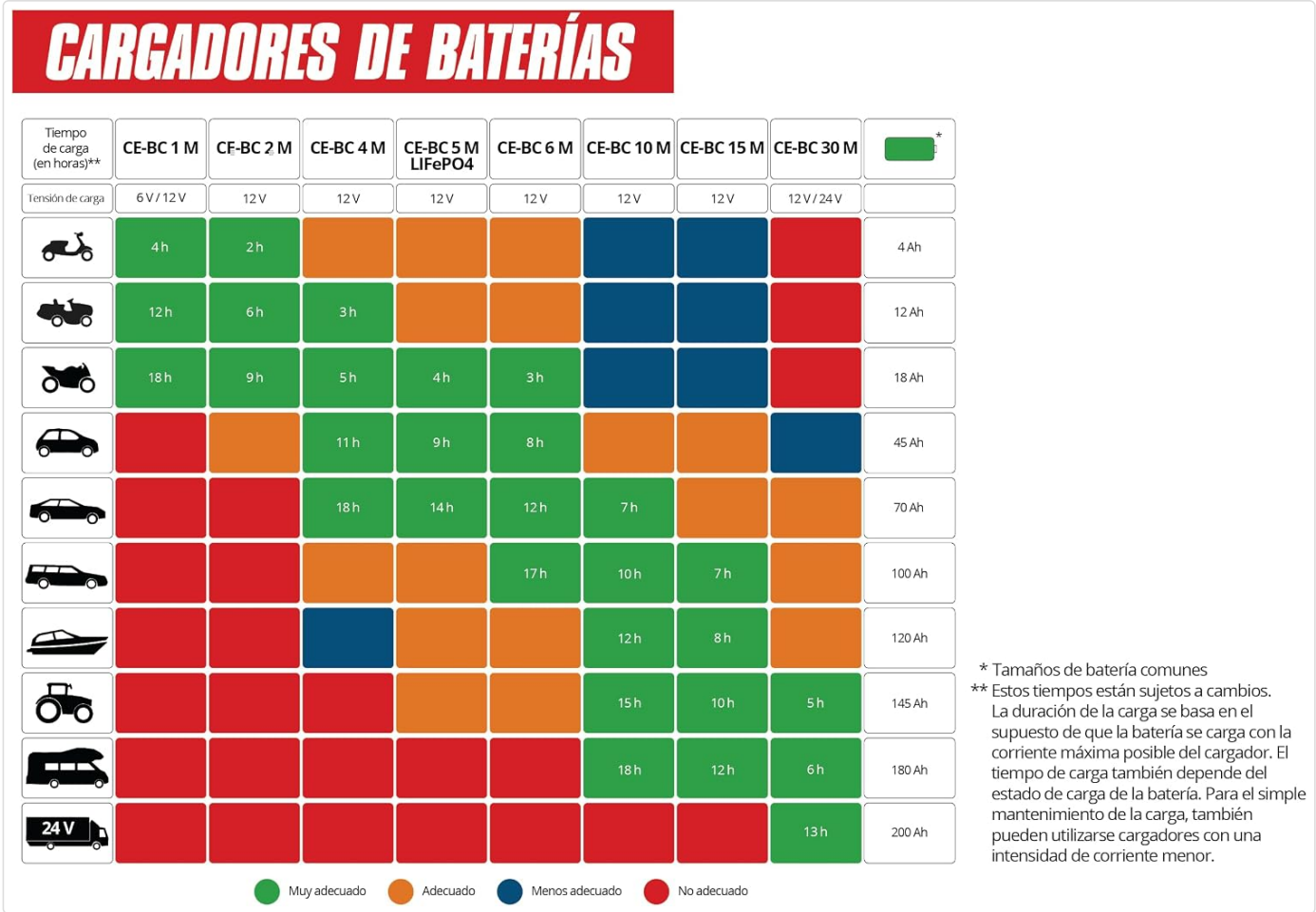


Image: Charging time guide for various battery types and capacities with Einhell chargers.

MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your battery charger.

- **Cleaning:** Disconnect the charger from the power supply and battery before cleaning. Wipe the casing with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a dry, cool place when not in use. Ensure cables are neatly coiled and not kinked.
- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage, such as cuts, fraying, or exposed wires. Do not use the charger if any cables are damaged.
- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your Einhell CE-BC 10 M charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on	No power supply; faulty outlet; damaged cable.	Check power connection and outlet. Inspect power cord for damage.

Problem	Possible Cause	Solution
Charging not starting	Incorrect battery connection (reverse polarity); battery too deeply discharged; battery fault.	Verify correct polarity (+ to + and - to -). Check battery voltage. If battery is severely discharged or faulty, it may not accept a charge.
Charger displays error code	Internal fault; battery fault; connection issue.	Refer to the specific error code in the full manual (if available). Disconnect and reconnect the charger. If the problem persists, contact customer support.
Slow charging	Battery capacity is very high; battery condition; ambient temperature.	Charging large batteries takes longer. Ensure winter mode is active if charging in cold conditions.

If these solutions do not resolve the issue, please consult the complete product manual or contact Einhell customer support.

SPECIFICATIONS

Feature	Detail
Brand	Einhell
Model Number	1002245
Color	Red, Black
Product Dimensions (LxWxH)	34 x 16 x 8 cm
Input Voltage	240 Volts AC
Output Voltage	12 Volts DC
Rated Current	10 Amperes
Compatible Battery Types	Gel, AGM, Lead-Acid (12V)
Number of Ports	1
Compliance	CE
Country of Origin	Spain

WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation included with your purchase or visit the official Einhell website. For technical support or service inquiries, please contact Einhell customer service through their official channels.

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

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