

EverActive EVCBC10

EverActive CBC-10 Smart Car and Motorcycle Battery Charger User Manual

Model: EVCBC10

INTRODUCTION

The EverActive CBC-10 is a sophisticated, microprocessor-controlled smart charger designed for a wide range of 12V and 24V batteries, including VRLA, AGM, GEL, SLA, and traditional Wet/Lead-Acid types. This compact and efficient charger is engineered to extend battery life and provide reliable charging for various vehicles and devices such as cars, motorcycles, kick scooters, electric scooters, and toys. Its advanced digital technology ensures optimal performance and reduced energy consumption.

SAFETY INFORMATION

Please read all safety instructions carefully before using the EverActive CBC-10 charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always ensure the charger is disconnected from the power outlet before making or breaking connections to the battery.
- Use the charger in a well-ventilated area. Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Avoid charging frozen batteries. Allow the battery to thaw before attempting to charge.
- Do not expose the charger to rain or wet conditions.
- Keep out of reach of children.
- Do not use the charger if the power cord or output cables are damaged. Contact qualified service personnel for repair.
- Ensure the battery type and voltage match the charger's specifications before connecting.

PRODUCT OVERVIEW

The EverActive CBC-10 charger features a robust design with an intuitive LED display and multiple charging modes.

Key Features:

- Microprocessor-controlled for precise and efficient charging.
- Fully automatic multi-stage charging process.
- Automatic voltage detection for 12V and 24V batteries.
- "Winter Mode" for optimal charging in cold temperatures.
- Compatible with VRLA, AGM, GEL, SLA, and Wet/Lead-Acid battery types.
- Compact design with improved reliability.

Components:



Figure 1: EverActive CBC-10 Smart Battery Charger. This image shows the main unit of the EverActive CBC-10 charger, highlighting its compact black casing, the EverActive logo, model number CBC-10, and the LED indicator panel displaying charge progress (25%, 50%, 75%, 100%), current settings (2A, 5A, 10A), and voltage modes (12V, 24V, 13.6V Supply). The "MODE" button is also visible.



Figure 3: Alligator Clip Cable. This image shows the red and black alligator clips, which are used for easily connecting the charger to battery terminals.

- **Ring Terminal Cable:** For more permanent or secure connections to battery posts.



Figure 4: Ring Terminal Cable. This image displays the red and black cables ending in ring terminals, designed for secure, semi-permanent attachment to battery posts.

Feature	Specification
Model Number	EVCBC10
Input Voltage	220 – 240V AC, 50Hz/60Hz, 1000mA max
Output Voltage	12V DC (14.4V/14.7V), 24V DC (28.8V/29.4V)
Current Rating	2A / 5A / 10A (selectable)
Battery Types	12V/24V VRLA, AGM, GEL, SLA, Wet/Lead-Acid
Battery Capacity (12V)	10 - 300 Ah
Battery Capacity (24V)	10 - 150 Ah
Efficiency Level	75% - 80%
Operating Temperature	-10°C to 40°C
Dimensions (L x W x H)	22 x 8.2 x 5.6 cm
Weight	730 grams
Manufacturer	Baltrade
GTIN	05902020523963

SETUP

Follow these steps to set up your EverActive CBC-10 battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and a mixture of baking soda and water.
2. **Choose Connection Cable:** Select either the alligator clip cable or the ring terminal cable based on your battery setup.
 - For temporary connections, use the **alligator clip cable**.
 - For more secure or semi-permanent connections, use the **ring terminal cable**.
3. **Connect to Battery:**
 - Connect the **RED** positive (+) charger cable to the positive (+) battery terminal.
 - Connect the **BLACK** negative (-) charger cable to the negative (-) battery terminal.
 - Ensure connections are firm and secure.
4. **Connect to Power Outlet:** Plug the AC power cord into a standard 220-240V AC wall outlet. The charger will power on and begin its automatic detection process.



Figure 5: Charger with Power and Output Cables. This image shows the EverActive CBC-10 charger connected to its AC power cord and one of the output cables (ring terminal type), illustrating how the charger is powered and ready for battery connection.

OPERATING INSTRUCTIONS

The EverActive CBC-10 charger operates with a fully automatic, multi-stage charging process.

Automatic Charging Process:

1. **Battery Detection:** Once connected to the battery and power, the charger will automatically detect the battery voltage (12V or 24V) and type.
2. **Charging Mode Selection:** The charger will automatically select the appropriate charging mode based on the battery's condition.
3. **Charging Stages:** The charger proceeds through various stages (desulfation, soft start, bulk charge, absorption, float) to optimize charging and extend battery life. The LED indicators will show the charging progress (25%, 50%, 75%, 100%).
4. **Full Charge & Maintenance:** Once the battery is fully charged, the charger automatically switches to a maintenance (float) mode to prevent overcharging and keep the battery at optimal capacity.

Manual Mode Selection (if applicable):

Use the "MODE" button on the charger to cycle through available charging current settings (2A, 5A, 10A) or special modes like "Winter Mode" or "13.6V Supply" if supported by your model. Refer to the LED indicators to confirm the selected mode.

- **2A Mode:** Suitable for smaller batteries (e.g., motorcycle, scooter, toy batteries).
- **5A Mode:** General purpose charging for medium-sized batteries.
- **10A Mode:** For faster charging of larger car batteries.
- **Winter Mode (Snowflake icon):** Activates a higher charging voltage suitable for cold environments (below 5°C / 41°F) to ensure a full charge.

- **13.6V Supply Mode:** Provides a constant 13.6V output, useful for powering 12V devices or maintaining battery voltage during vehicle diagnostics.



Figure 6: Close-up of Charger Display and Connections. This image provides a detailed view of the EverActive CBC-10's LED display panel, showing the various indicators for charge percentage, current settings (2A, 5A, 10A), and special modes (Winter, 13.6V Supply). It also clearly shows the input power cable and the output connection port for the battery cables.

MAINTENANCE

Proper maintenance of your EverActive CBC-10 charger and the batteries it charges will ensure longevity and optimal performance.

- **Cleaning:** Wipe the charger casing with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the charger is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect the AC power cord and battery connection cables for any signs of damage, fraying, or exposed wires. Replace damaged cables immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.
- **Battery Maintenance:** For optimal battery health, ensure battery terminals are clean. For wet lead-acid batteries, check electrolyte levels periodically and top up with distilled water if necessary (refer to battery manufacturer's guidelines).

TROUBLESHOOTING

If you encounter issues with your EverActive CBC-10 charger, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; loose connection; damaged power cord.	Check wall outlet with another device. Ensure power cord is securely plugged into charger and outlet. Inspect power cord for damage.
Charger not charging battery.	Incorrect battery connection; battery voltage too low; battery is faulty.	Ensure positive and negative connections are correct and secure. The charger may not initiate charging if battery voltage is extremely low (below 2V for 12V battery). Test battery with a voltmeter; if voltage is extremely low or battery is damaged, it may need replacement.
Error indicator (e.g., exclamation mark) is lit.	Reverse polarity connection; short circuit; battery fault.	Disconnect charger immediately. Recheck battery connections for correct polarity. Inspect cables for short circuits. If the error persists, the battery may be faulty.
Charging takes too long.	Battery deeply discharged; battery capacity is very large; selected current is too low.	This is normal for deeply discharged or very large batteries. Ensure you have selected the appropriate charging current (e.g., 10A for large car batteries).

If the problem persists after trying these steps, please contact EverActive customer support.

WARRANTY AND SUPPORT

EverActive products are designed for high quality and reliability. For warranty information and technical support, please refer to the documentation included with your purchase or visit the official EverActive website.

Manufacturer: Baltrade

Brand: EverActive

Model: EVCBC10

For further assistance, please contact your retailer or the manufacturer directly.