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## PCHH BC-107

# PCHH 12V 24V Car Battery Charger Instruction Manual

Model: BC-107



## INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your PCHH 12V 24V Car Battery Charger. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury.

## SAFETY INFORMATION

**WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.**

- Always operate the charger in a well-ventilated area.
- Do not expose the charger to rain or wet conditions.
- Ensure the charger is disconnected from the power supply before making or breaking connections to the battery.
- Avoid short-circuiting the output terminals.
- Wear eye protection and gloves when working with batteries.
- Keep out of reach of children.
- This charger is designed for lead-acid batteries only (AGM, GEL, Wet/Flooded, EFB, Calcium, MF, deep-cycle). Do not use with lithium batteries.
- The charger has built-in protection systems including reverse polarity, short circuit, overcharge, over-heat, over-voltage, and over-current protection.

## PRODUCT OVERVIEW

The PCHH 12V 24V Car Battery Charger is a heavy-duty, automatic battery maintainer designed for various vehicles. It features multiple charging modes and safety protections.



Image: Front view of the PCHH 12V 24V Car Battery Charger, showing its yellow and black casing, digital display, and control buttons. The charger includes attached red and black battery clamps and a power cord.

## Key Features:

- Heavy-duty construction with copper coil, metal, and ABS casing.
- Automatic detection for 12V and 24V batteries.
- Multiple charging modes: Fast Charge, Trickle Charge, Repair, Auto Off, Maintain, Winter Mode.
- LCD digital display showing charging percentage, current, and voltage.
- Can be used as a 12V DC power supply.
- Comprehensive safety protections.

## SETUP

Follow these steps for initial setup and connection:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.

## 2. Connect the Battery Clamps:

- Connect the **red positive (+)** clamp to the **positive (+)** terminal of the battery.
- Connect the **black negative (-)** clamp to the **negative (-)** terminal of the battery.
- Ensure a secure connection.

3. **Connect to Power Outlet:** Plug the charger's AC power cord into a standard 100-130V AC outlet.

4. **Power On:** Turn on the charger using the power switch. The LCD display will illuminate.

# SAFE AND EASY TO USE

**1** Connect the battery

**2** Plug into a 100V -130V AC outlet

**3** Select charging rates "Fast" or "Slow"

**4** Select charging mode based on your needs

**Note:** This is **NOT a Jump Starter**, but an AC-powered Battery Charger Maintainer to keep your vehicles and batteries at full status.

Image: A four-step visual guide demonstrating how to use the charger: 1. Connect the battery, 2. Plug into an AC outlet, 3. Select charging rates (Fast or Slow), 4. Select charging mode based on needs.

*Note: This device is an AC-powered Battery Charger Maintainer, not a jump starter.*

## OPERATING INSTRUCTIONS

The charger automatically detects 12V or 24V batteries. Use the "Select" buttons on the control panel to choose your desired mode.

# 12V/24V AUTO DETECT

Two rates charge all lead-acid batteries and vehicles

**FAST**      **SLOW**

12V 0-15A	12V 0-7.5A
24V 0-10A	24V 0-5A

Motorcycle      Lawnmower

Car      SUV

Truck      RV/Camper

Boat/Marine      Lead-acid

**(Lithium battery disabled)**

Image: Diagram illustrating the 12V/24V auto-detect feature and two charging rates (Fast and Slow) for various vehicles like motorcycles, cars, trucks, boats, lawnmowers, SUVs, RVs, and lead-acid batteries.

## Charging Modes:

- **Fast Charge Mode:** Provides a higher current (12V 0-15A, 24V 0-10A) for quicker charging of larger batteries. Select "Fast" on the control panel.
- **Trickle Charge Mode (Slow):** Provides a lower current (12V 0-7.5A, 24V 0-5A) for smaller batteries or for maintaining a charge over a longer period. Select "Slow" on the control panel.
- **Repair Mode:** Designed to revive dead batteries (above 3V) and restore old, drained, or sulfated battery performance.

# REPAIR DEAD BATTERIES

Charge dead batteries (>3V) back to life

Restore old, drained, lost battery performance



Image: The PCHH charger connected to a car battery under the hood, illustrating its capability to repair dead batteries.

- **Auto Off / Maintain Mode:**

- **Auto Off:** Automatically stops charging when the battery is fully charged to prevent overcharging.
- **Maintain:** After full charge, uses a pulse current to restore and extend the life of old, drained, stratified, and sulfated batteries.

# EXTEND BATTERY LIFE

Automatic charging cycle to maximize battery power

## Auto OFF Mode

Automatically shut off after fully charged, avoid overcharging

## Maintain Mode

Maintain and restore old batteries performance after fully charged and extend battery life



Image: The charger connected to a battery, demonstrating the "Auto Off Mode" to prevent overcharging and the "Maintain Mode" to restore and extend battery life.

- **Winter Mode:** Provides a more complete charge in cold weather conditions, ensuring a stronger engine start.



Image: A car driving on a snowy road, visually representing the "Winter Mode" feature for cold weather charging.

- **12V DC Power Supply Mode:** The charger can function as a stable 12V DC power supply for vehicle diagnostics or powering 12V DC devices like tire inflators or oil changers. It is also suitable for electrolysis projects (e.g., rust removal).



# AS A 12V DC POWER SUPPLY

For vehicle diagnostics or powering any 12vdc device  
Work as a manual charger for **electrolysis**



Tire Inflator



Oil Changer



Car Vacuum Cleaner



Rust Removal

Image: The charger connected to a wall outlet, with examples of 12V DC devices it can power, such as a tire inflator, oil changer, car vacuum cleaner, and its use for rust removal.

## LCD Display:

The easy-to-read LCD digital display provides real-time information:

- **Charging Percentage:** Shows the battery's charge level.
- **Current (Amps):** Displays the charging current.
- **Voltage (Volts):** Shows the battery voltage.

# ONE CHARGER FOR ALL VEHICLES

12V 24V LEAD-ACID AGM GEL FLOODED EFB CALCIUM

 <b>Car / SUV</b>	 <b>RV/Camper</b>	 <b>Lead-acid Batteries</b>
 <b>Motorcycle</b>	 <b>Lawn Mower</b>	 <b>Truck</b>

Image: A close-up of the charger's LCD display showing current, voltage, and charging percentage, alongside an illustration of the six

selectable modes: Repair, Smart, Auto Off, Maintain, Winter, and All Weather.

## MAINTENANCE

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- Keep the charger clean and dry. Wipe with a soft, damp cloth.
- Store the charger in a cool, dry place when not in use.
- Regularly inspect the cables and clamps for any signs of damage. Do not use if damaged.
- Ensure proper ventilation around the charger during operation.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; loose connection; power switch off.	Check AC outlet; ensure all connections are secure; turn on power switch.
Battery not charging.	Incorrect mode selected; battery deeply discharged (below 3V); poor connection; battery fault.	Select appropriate mode; ensure clamps are securely connected; battery may be beyond repair if voltage is too low.
Error message on display.	Reverse polarity; short circuit; over-temperature.	Check clamp connections (red to positive, black to negative); ensure no short circuits; allow charger to cool down if overheated.
Charger stops charging prematurely.	Battery fully charged (Auto Off mode); internal protection triggered.	This is normal if the battery is full. If not, check for other issues like overheating or faulty battery.

## SPECIFICATIONS

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# HEAVY DUTY CHARGER

Powerful, Durable, Last-long



Image: The PCHH charger with dimensions (11.4 inches length, 5.8 inches width, 8.6 inches height) and weight (12.4 lbs) indicated, highlighting its heavy-duty build.

- **Model:** BC-107
- **Input Voltage:** 100-130V AC
- **Output Voltage:** 12V / 24V DC (Automatic Detection)
- **Charging Current:** 0-15A (12V), 0-10A (24V)
- **Battery Types:** All types of lead-acid batteries (AGM, GEL, Wet/Flooded, EFB, Calcium, MF, Deep-Cycle)
- **Battery Capacity:** 4-300AH
- **Dimensions:** 11.4 x 5.8 x 8.6 inches
- **Weight:** Approximately 12.4 pounds
- **Cable Length:** AC 6 feet, DC 4 feet
- **Operating Temperature:** Designed for all climates (includes Winter Mode)
- **Safety Protections:** Reverse polarity, short circuit, overcharge, over-heat, over-voltage, over-current protection.

## WARRANTY AND SUPPORT

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The PCHH 12V 24V Car Battery Charger comes with a **3-year warranty** for added peace of mind. For technical support, warranty claims, or any questions regarding your product, please contact PCHH customer service through the retailer where you purchased the product or visit the official PCHH store online.

For more information, you may visit the [PCHH Store on Amazon](#).

