

COREBOX B0G5PTFKVL

COREBOX 2-Amp 6V/12V Smart Battery Charger Instruction Manual

Model: B0G5PTFKVL

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your COREBOX 2-Amp 6V/12V Smart Battery Charger. This device functions as a 4-in-1 unit: a battery charger, trickle charger, battery maintainer, and battery desulfator. It is designed for 6-volt and 12-volt lead-acid batteries, including AGM, Gel, SLA, and VRLA types, suitable for various vehicles and equipment.

Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INFORMATION

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

- **Battery Type Compatibility:** This charger is designed exclusively for 6-volt and 12-volt lead-acid batteries (AGM, Gel, SLA, VRLA, flooded, powersport, deep-cycle). **Do not attempt to charge lithium batteries.**
- **Completely Dead Batteries:** This charger cannot charge completely dead (0V) batteries.
- **Ventilation:** Ensure adequate ventilation during charging. Batteries can produce explosive gases.
- **Connection Order:** Always connect the charger to the battery terminals first, then plug the charger into the power outlet. Disconnect in reverse order.
- **Spark-Free Clamps:** The charger features spark-free clamps to minimize risk during connection.
- **Temperature Compensation:** The charger includes automatic temperature compensation for safe and efficient charging in varying conditions.
- **Protection Features:** Equipped with intelligent multi-protection against fire, short circuit, overcurrent, overload, overvoltage, overheat, and anti-reverse connection.
- **Automatic Shut-down:** The charger includes an auto-shut/down feature during faults and when the

battery is fully charged.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- COREBOX 2-Amp 6V/12V Smart Battery Charger (with integrated power cable)
- Crocodile Clip Connector Cable (23.62 inches / 600mm)
- User Guide & Warranty (this manual)



Image: What's in the Box. This image displays the COREBOX 2-Amp 6V/12V Smart Battery Charger, the crocodile clip connector cable, and the instruction manual, all neatly arranged next to the product packaging.

4. PRODUCT OVERVIEW

The COREBOX Smart Battery Charger features a compact design with an intuitive interface. The main unit includes a smart LCD display and a single MODE button for operation.

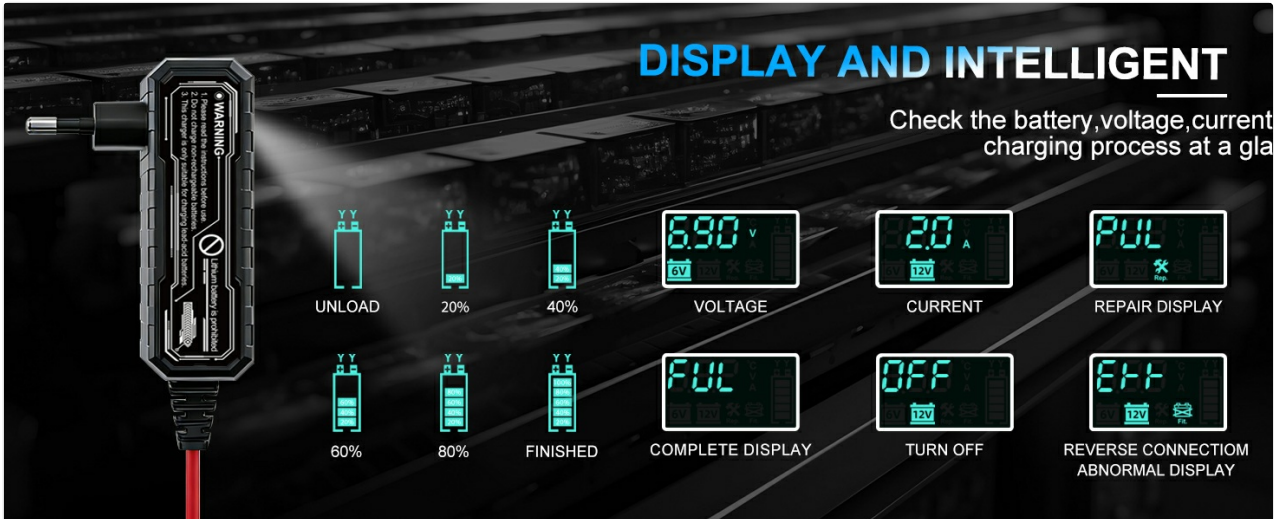


Image: Display and Intelligent Features. This image highlights the charger's smart LCD screen, showing various indicators like voltage, current, charging percentage, and error messages. The MODE button is also visible.

LCD Display Indicators:

- **Charging Status:** Shows the current charging progress.
- **Percentage:** Displays the battery's charge level.
- **Voltage:** Indicates the battery's voltage (6V or 12V).
- **Current:** Shows the charging current (up to 2A).
- **Mode Indicator:** Displays the active charging mode (STANDARD, TRICKLE, PULSE REPAIR).
- **Error Codes:** Alerts for issues like reverse connection (E-H).

5. SETUP

Follow these steps to set up your COREBOX battery charger:

1. Connect to Battery Terminals:

- Connect the **red positive (+)** clamp to the positive battery terminal.
- Connect the **black negative (-)** clamp to the negative battery terminal.

Ensure a secure connection. The clamps are spark-free.

2. **Plug into Power Outlet:** Insert the charger's power plug into a standard 120V AC wall socket. The LCD screen will light up, and the charger will automatically detect the battery's voltage, current, and remaining capacity.

3. **Select Charging Mode:** Press the **MODE** button to cycle through the available charging modes (STANDARD, TRICKLE, PULSE REPAIR) and select the appropriate one for your battery and charging needs.



Image: Plug and Charge Steps. This visual guide illustrates the four steps: connecting battery terminals, plugging into the socket, automatic detection, and pressing the MODE button to select the charging mode.

6. OPERATING INSTRUCTIONS

Once connected and powered, the charger will begin its operation based on the selected mode.

Charging Modes:

- STANDARD Mode:** This is the primary charging mode, designed for a quick 2A maximum charge to fully restore battery performance. It employs a 7-stage smart charging process: desulfurization, trickle charging, constant current, constant voltage, detection, compensation, and float charging. The charger will automatically shut off once fully charged. For optimal performance, continue charging for 1-2 hours after "FUL" appears until "OFF" is displayed.

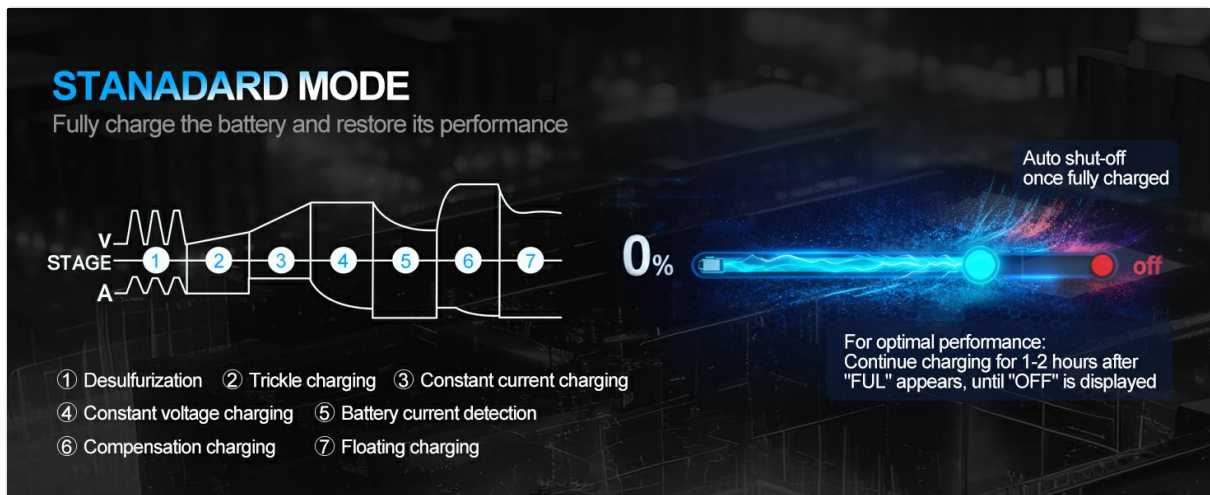


Image: Standard Mode Charging Process. This diagram visually explains the seven stages of the standard charging process, from desulfurization to floating charge, and indicates the auto shut-off feature.

- TRICKLE Mode:** This mode provides automatic low-current output for long-term battery maintenance, compensating for self-discharge during storage. It is ideal for seasonal vehicles. The auto-recharge feature continuously monitors voltage; if it falls below 6.25V (6V battery) or 12.5V (12V battery), it automatically restarts a full smart charge.

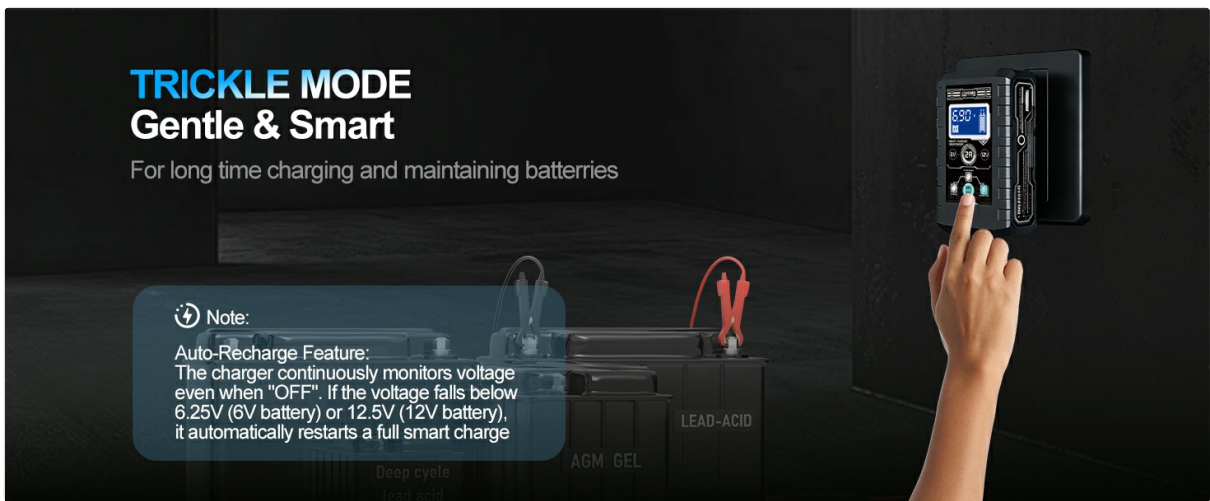


Image: Trickle Mode. This image depicts the charger in Trickle Mode, emphasizing its gentle and smart functionality for long-term battery maintenance, with a note about the auto-recharge feature.

- **PULSE REPAIR Mode:** This function detects battery sulfation and acid stratification. It activates, recovers, and improves battery health, restoring lost performance for stronger starts and extending battery life. Recommended repair times: approximately 2 hours for toy car batteries and 4 hours for motorcycle batteries.

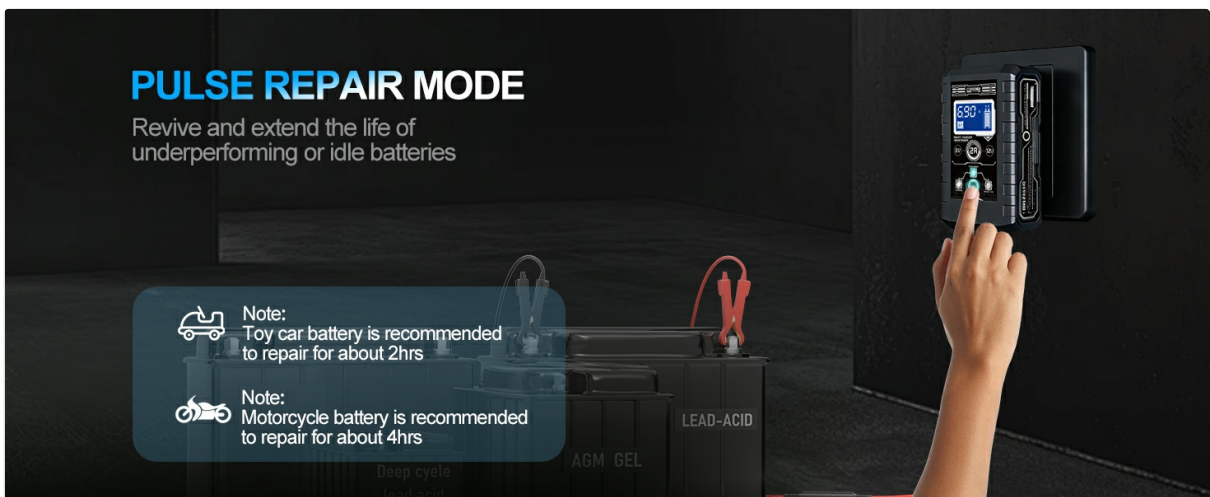


Image: Pulse Repair Mode. This image illustrates the charger in Pulse Repair Mode, highlighting its ability to revive and extend the life of underperforming or idle batteries, with specific repair time recommendations.

7. MAINTENANCE

Proper maintenance ensures the longevity of your charger and the batteries it services:

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage, fraying, or exposed wires. Do not use if damaged.
- **Battery Maintenance:** For vehicles stored long-term, use the TRICKLE mode to maintain battery charge and prevent self-discharge.

8. TROUBLESHOOTING

If you encounter issues with your COREBOX charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not turn on / LCD is blank	No power from outlet; loose connection	Check power outlet; ensure charger is securely plugged in.
"E-H" error displayed	Reverse connection of battery clamps	Disconnect charger, then reconnect red clamp to positive (+) and black clamp to negative (-) terminals correctly.
Charger gets hot during use	Normal operation; poor ventilation	Some heat is normal. Ensure adequate ventilation around the charger. If excessively hot, disconnect and allow to cool.
Battery not charging / Charging is slow	Incorrect mode selected; battery severely discharged or damaged	Ensure correct mode is selected. If battery is below 0V, it cannot be charged. If battery is old or damaged, it may not accept a charge.
Charger automatically shuts off	Battery fully charged; internal fault detected	This is normal if the battery is full. If an error is suspected, disconnect and re-evaluate connections.

9. SPECIFICATIONS

Detailed technical specifications for the COREBOX 2-Amp 6V/12V Smart Battery Charger:

Feature	Specification
Brand	COREBOX
Model	B0G5PTFKVL
Output Voltage	6 Volts / 12 Volts
Input Voltage	120 Volts
Current Rating	2 Amps
Product Dimensions (D x W x H)	3"D x 2"W x 1"H
Compatible Devices	Cars, Trucks, Motorcycles, Boats, Lawn Mowers, RVs, Marines, Golf Carts, ATVs, UTVs
Connector Type	Battery Clamps
Certifications	CE, FCC, RoHS

Feature	Specification
Unit Count	1.0 Count

10. WARRANTY AND SUPPORT

Your COREBOX 2-Amp 6V/12V Smart Battery Charger comes with a **2-Year Manufacturer Warranty**.

We are committed to your satisfaction. If you receive a used, incorrect, or damaged product, we will promptly issue a replacement or refund. For returns, please mark the item "unsellable" to ensure it is not resold to other customers.

For any questions, technical assistance, or warranty claims, please contact COREBOX customer support through the retailer's platform where the product was purchased.