

COREBOX 15A

COREBOX 15-Amp 12V Automatic Smart Battery Charger Instruction Manual

Model: 15A

Introduction	Safety Information	Product Features	Setup	Operating Instructions	Maintenance
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1. INTRODUCTION

The COREBOX 15-Amp 12V Automatic Smart Battery Charger is a versatile device designed for charging, maintaining, and desulfating 12V lead-acid batteries. It is suitable for a wide range of vehicles including cars, trucks, SUVs, motorcycles, lawnmowers, and marine applications. This manual provides essential information for safe and effective use of your battery charger.

2. SAFETY INFORMATION

Your COREBOX battery charger is equipped with multiple safety features to ensure secure operation. Always follow these guidelines:

- **Overcurrent Protection:** Prevents damage from excessive current.
- **Overload Protection:** Safeguards against overloading the circuit.
- **Power-off Protection:** Automatically shuts down when charging is complete or in case of malfunction.
- **Overvoltage Protection:** Protects against voltage surges.
- **Fire Protection:** Constructed with fireproof materials for enhanced safety.
- **Short Circuit Protection:** Prevents damage from short circuits.
- **Anti-Reverse Connection Protection:** Ensures correct polarity connection to prevent damage.
- **Overheat Protection:** Integrated cooling system and temperature compensation prevent overheating.
- Always connect the charger to the battery terminals before plugging it into a power outlet.
- Disconnect from the power outlet before disconnecting from the battery.

- Ensure adequate ventilation during charging.
- Do not attempt to repair a totally dead battery with this charger.



Image: The COREBOX 15-Amp 12V Smart Battery Charger highlighting its multiple protection features including overcurrent, overload, power-off, overvoltage, fire, short circuit, anti-reverse connection, and overheat protection.

3. PRODUCT FEATURES

- **7-Stage Intelligent Charging:** Includes desulfation, soft start, bulk charge, analysis, recondition, float, and pulse maintenance stages for optimal battery health and longevity.
- **High-Efficiency Pulse Repair:** Utilizes slow pulse repair technology to detect and address battery sulfation and acid stratification, restoring lost battery performance and extending battery life.
- **Temperature Compensation:** Automatically adapts charging parameters based on ambient temperature (winter/summer modes) for efficient charging in various climates.
- **Multi-Battery Compatibility:** Suitable for all 12V lead-acid batteries, including AGM, GEL, SLA, and Flooded types.
- **User-Friendly Display:** Clear digital display shows real-time temperature, voltage, current, and charging status.
- **Durable Construction:** Features high-quality copper wire that is heat-resistant, cold-resistant, and oxidation-resistant, with built-in cooling fans for effective heat dissipation.

SMART CHARGER

Chargers are used to recondition old batteries and restore equipment to operational failure.



Image: The COREBOX Smart Charger with icons representing battery, charging, and smart chip technology, emphasizing its intelligent charging capabilities.



Image: Diagram illustrating the 9-stage gentle charging process of the COREBOX Battery Charger, from desulfation to float and pulse maintenance.

4. SETUP

Before connecting the charger, ensure your vehicle is turned off and in a well-ventilated area.

1. **Connect the Clamps:** Attach the red (+) clamp to the positive terminal of the battery and the black (-) clamp to the negative terminal of the battery.
2. **Connect to Power:** Plug the charger's power cord into a standard 120V AC electrical outlet.
3. **Power On:** The charger will automatically power on and begin detecting the battery type and condition.



Image: The COREBOX Battery Charger connected to a car battery, showing the red clamp on the positive terminal and the black clamp on the negative terminal.

5. OPERATING INSTRUCTIONS

The charger features an intuitive interface with a mode selection button and a clear display.

5.1 Mode Selection

Press the "MODE" button to cycle through different charging modes:

- **Car/Truck Mode:** Standard charging for automotive batteries.
- **AGM/GEL Mode:** Optimized charging for AGM and Gel batteries.
- **Motorcycle Mode:** Suitable for smaller motorcycle batteries.
- **Repair Mode:** Activates pulse repair technology for sulfated or stratified batteries. (Note: Cannot repair totally dead batteries).
- **Winter/Summer Mode:** Automatic temperature compensation adjusts charging based on environmental conditions.

5.2 Display Content

The digital display provides real-time information:

- **Real-time Temperature:** Shows the ambient temperature.
- **Real-time Voltage:** Displays the current battery voltage.
- **Real-time Current:** Indicates the charging current in Amps.
- **Charging Status:** Battery icon shows charge level.
- **Error Indicators:** "Erro" for errors, "OFF" for power off, "FUL" for fully charged, "PUL" for pulse repair, "SUP" for supply mode.

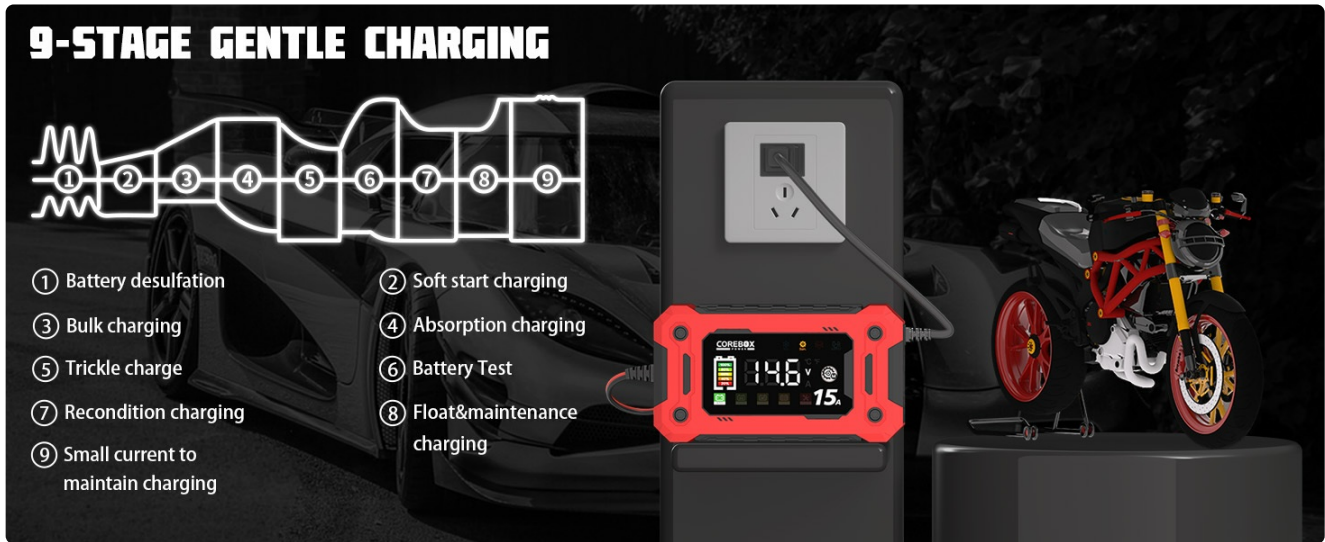


Image: The COREBOX Battery Charger's display panel, illustrating icons for different modes (car/truck, AGM/GEL, motorcycle, repair) and indicators for pulse repair, multiple protection, winter/summer, and intelligent detection.



Image: A detailed view of the COREBOX Battery Charger's screen display, showing various indicators like real-time temperature, voltage, current, and status messages such as "Desulfurization", "Pulse Repair", "Fully Charged", "Supply Mode", "Repair Completed", and "Error".

5.3 Supply Mode (Short Circuit Protection)

To activate Supply Mode, press the mode switch button for 3 seconds. When the "SUPPLY" indicator appears on the screen, the supply mode is active. Press the mode switch button again to exit this mode. In supply mode, if the output rail is shorted, the input power will be reduced, and the power supply will show no damage, automatically recovering once the fault condition is eliminated.

AUTOMATIC CHILD-LOCK

Ultimate Safe Charging Experience.



Image: The COREBOX Battery Charger displaying "SUP" for Supply Mode, indicating its short circuit protection feature. The text explains how to activate and deactivate this mode and its function in case of a short circuit.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your battery and charger.

- **Battery Maintainer Function:** Use the charger's maintainer function to keep batteries at peak performance during periods of inactivity (e.g., winter storage, vacations).
- **Cleaning:** Keep the charger clean and free from dust and debris. Use a dry cloth for cleaning.
- **Storage:** Store the charger in a cool, dry place when not in use.
- **Cable Care:** Ensure cables are not kinked or damaged. High-quality copper wires are designed for durability.
- **Cooling System:** The built-in cooling fans help dissipate heat. Ensure the vents are not obstructed.

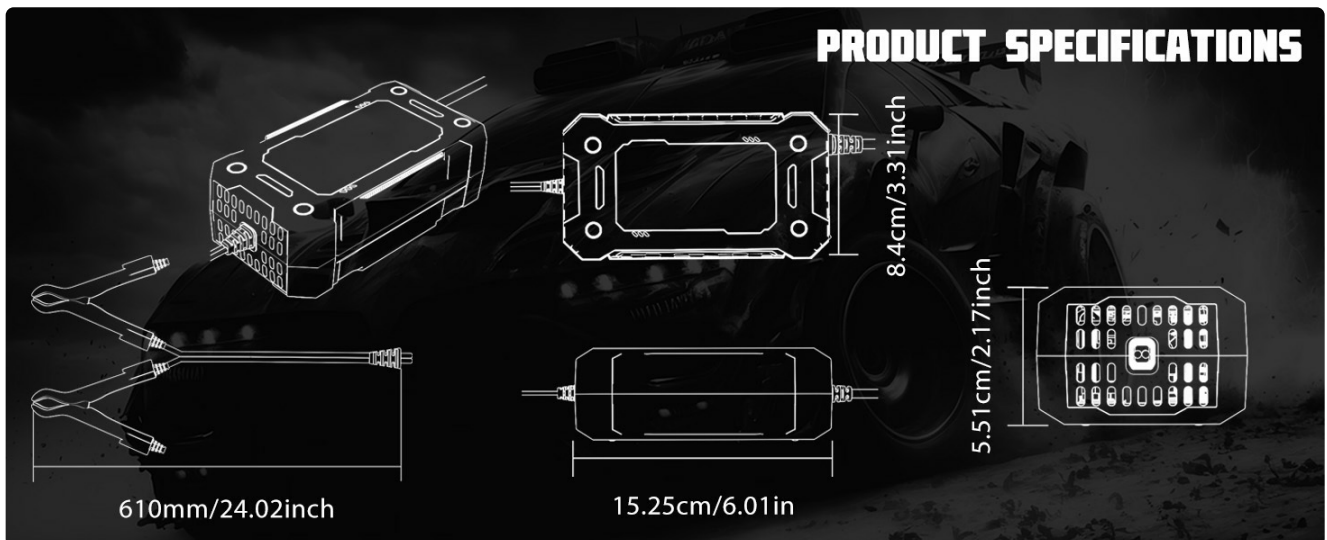


Image: The COREBOX Battery Charger highlighting its high-quality cooling fans, which provide ample airflow for effective heat dissipation during operation.

7. TROUBLESHOOTING

- **Battery Not Charging:**
 - Check all connections to ensure they are secure and correctly polarized (red to positive, black to negative).

- Verify the power outlet is functional.
- If the battery is sulfated or deeply discharged, try the "Repair" mode.
- Note: This charger cannot repair a totally dead battery.

- **Error Message on Display:**

- Refer to the display content section for specific error codes (e.g., "Erro").
- Disconnect the charger, inspect connections, and reconnect. If the error persists, contact customer support.

- **Overheating:**

- Ensure the charger's vents are not blocked.
- Move the charger to a cooler, well-ventilated area.

8. SPECIFICATIONS

Brand	COREBOX
Model Number	15A
Product Dimensions	8.4"D x 2.6"W x 4.3"H
Output Voltage	12 Volts
Input Voltage	120 Volts
Current Rating	15 Amps
Connector Type	Alligator Clips
Number of Ports	1
Specification Met	CE, FCC, UL

FUNCTION INTRODUCTION

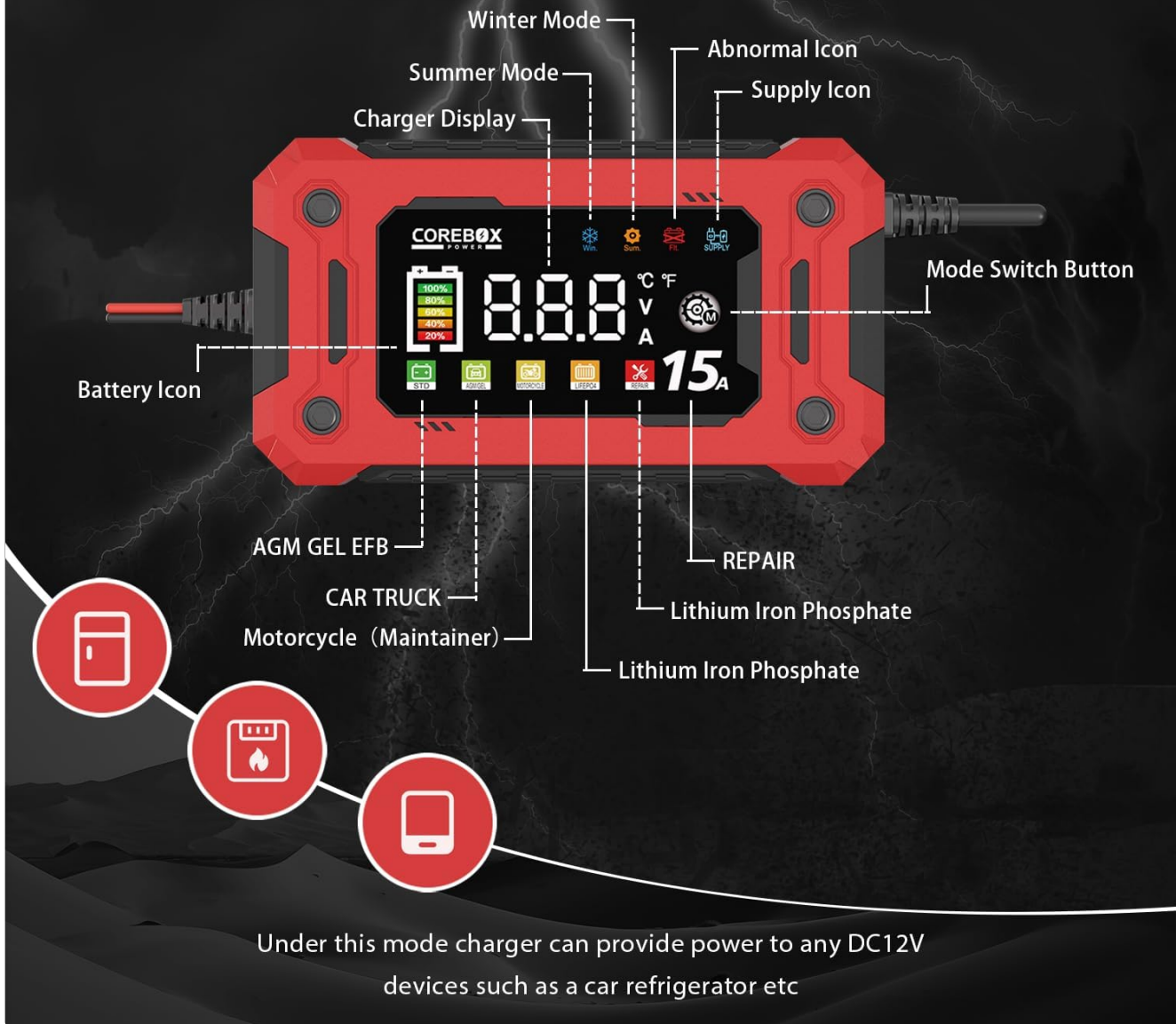


Image: Diagram showing the product dimensions of the COREBOX Battery Charger, including length, width, and height measurements.

9. WARRANTY & SUPPORT

The COREBOX Battery Charger comes with a **2-year manufacturer's warranty**. If you encounter any problems during use, please contact COREBOX customer support for assistance. We are committed to providing solutions and support for our products.

Important Note for Returns: If you are not pleased with your COREBOX battery charger and choose to return it, please kindly mark it as "unsellable" to prevent it from being resold to other customers. We appreciate your cooperation.

10. PRODUCT VIDEOS

COREBOX 25A Smart Battery Charger for 12V/24V Vehicles

Your browser does not support the video tag.

Video: An official seller video demonstrating the COREBOX Smart Battery Charger, highlighting its features and use for 12V/24V

vehicles. This video provides a comprehensive overview of the product's capabilities.