COREBOX B0DNSWH1RS

COREBOX 6-Amp 12V Automatic Smart Battery Charger User Manual

MODEL: B0DNSWH1RS

Brand: COREBOX

1. Introduction

The COREBOX 6-Amp 12V Automatic Smart Battery Trickle Charger is an advanced, all-in-one solution designed for optimal battery maintenance and charging. This versatile device functions as a charger, maintainer, trickle charger, and desulfator, ensuring your batteries remain in peak condition across various applications.

Equipped with intelligent 7-stage charging technology and comprehensive safety features, it provides efficient and reliable power management for a wide range of 12V lead-acid batteries, including AGM, GEL, SLA, and Flooded types. Its temperature compensation feature adapts charging parameters to environmental conditions, making it suitable for use in both hot and cold climates.



Figure 1: COREBOX 6-Amp 12V Automatic Smart Battery Charger

2. Important Safety Instructions

To ensure safe operation and prevent damage, please read and understand all safety instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always connect the battery clamps to the battery terminals first before plugging the charger into a power outlet.
- Ensure proper ventilation and avoid charging in a confined space.
- Use only with compatible battery types as specified in the specifications section.
- Avoid exposure to water or extreme temperatures.
- Keep children and pets away from the charger during operation.
- Disconnect the charger from the power source before disconnecting from the battery.
- The charger features multiple built-in protections including:
  - Fireproof Materials
  - Short Circuit Protection
  - Overcurrent Protection

- Overload Protection
- Anti-Reverse Connection Protection
- Overheat Protection
- Overvoltage Protection
- Automatic Power-Off When Fully Charged

- If any abnormality or damage occurs, stop using the device immediately and contact customer support.



Figure 2: Built-in Safety Protections

3. Package Contents

Please check the package for the following items:

- COREBOX 6-Amp 12V Automatic Smart Battery Charger Unit
- Battery Clamps (Red for Positive, Black for Negative)
- AC Power Cord
- User Manual (this document)



Figure 3: Charger Unit and Accessories

4. Product Overview

The COREBOX battery charger features a compact and durable design with a clear digital display for easy monitoring of the charging process. The unit is primarily red with black accents, designed for robust use.

4.1. Digital Display

The bright digital display shows real-time information including battery voltage, charging current, and temperature. It also indicates the selected charging mode and charging status.

4.2. Control Buttons

A single "MODE" button allows you to cycle through different charging modes to suit your battery type and condition.



Figure 4: Charger Display and Controls

5. Setup and Connection

Follow these steps to safely connect and begin charging your battery:

1. Ensure the charger is unplugged from any power outlet.
2. Connect the **RED** positive (+) clamp to the positive terminal of your battery.
3. Connect the **BLACK** negative (-) clamp to the negative terminal of your battery.
4. Once the clamps are securely attached to the battery, plug the charger's AC power cord into a standard electrical

outlet.

5. The charger will automatically detect the battery type and condition, and begin the charging process.
6. To select a specific charging mode (e.g., Car/Truck, Motorcycle, Repair), press the "MODE" button on the charger.

When charging is complete, the charger will automatically shut off. To disconnect, first unplug the charger from the AC outlet, then remove the negative (black) clamp, followed by the positive (red) clamp.

6. Operating Modes and Charging Process

The COREBOX charger utilizes an intelligent 7-stage charging process to optimize battery performance and extend its lifespan. You can select from various modes to match your battery's needs:

- **Car/Truck Mode:** Standard charging for 12V car and truck batteries.
- **AGM/GEL Mode:** Optimized charging for AGM and GEL batteries.
- **Motorcycle Mode:** Suitable for smaller 12V motorcycle batteries.
- **Repair Mode:** Uses slow pulse repair technology to detect and address battery sulfation and acid stratification, helping to restore lost battery performance. *Note: This mode cannot repair a totally dead battery.*



Figure 5: One-Button Mode Selection

6.1. Temperature Compensation

The charger features automatic temperature compensation, adjusting its charging output based on ambient temperature. This ensures optimal charging efficiency and battery health in both hot and cold environments.



Figure 6: Automatic Temperature Compensation

7. Maintenance

Proper maintenance of your battery and charger will ensure long-term performance and safety:

- Keep the charger clean and dry. Wipe with a soft, damp cloth if necessary.
- Regularly inspect the battery clamps and cables for any signs of wear, damage, or corrosion. Replace if necessary.
- For optimal battery health, especially during periods of inactivity, use the charger's maintenance or trickle charge function.
- If storing the charger, ensure it is disconnected from both the power source and the battery, and stored in a cool, dry place.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Charger not turning on / No display	No power from outlet; Incorrect connection to battery; Faulty unit.	Check the power outlet. Ensure clamps are correctly connected (positive to positive, negative to negative). If issue persists, contact support.
Battery not charging / "FUL" displayed immediately	Battery is already fully charged; Battery is severely sulfated or damaged (cannot be repaired).	Verify battery charge level. Try "Repair" mode if battery is sulfated (note: cannot revive completely dead batteries). Consider battery replacement if severely damaged.
Overheating during charging	Poor ventilation; High ambient temperature; Internal fault.	Ensure adequate airflow around the charger. Move to a cooler environment if possible. Discontinue use and contact support if overheating persists.
Error message on display	Incorrect connection; Internal fault.	Refer to the user manual for specific error codes. Recheck connections. If the error persists, contact customer support.

9. Specifications

Brand	COREBOX
Model	B0DNSWH1RS
Product Dimensions	8.4 x 2.6 x 4.3 inches (21.3 x 6.6 x 10.9 cm)
Item Weight	15.8 ounces (447.9 grams)
Input Voltage	12 Volts (AC)
Output Voltage	12 Volts (DC)
Output Current	6 Amps
Compatible Battery Types	12V Lead-Acid (AGM, GEL, SLA, Flooded)
Manufacturer	COREBOX
Country of Origin	China



Figure 7: Product Size Reference

10. Warranty and Customer Support

COREBOX provides a **2-year warranty service** for this product. If you encounter any problems during use, or have questions regarding the charger, please do not hesitate to contact our customer support team.
We are committed to providing prompt and effective solutions to ensure your satisfaction.
For support, please refer to the contact information provided on the product packaging or our official website.

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Example: How do I reset this device or fix this error?

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What does the 'FUL' indicator stand for on the COREBOX B0DNSWH1RS Smart Battery Charger?

On the COREBOX B0DNSWH1RS Smart Battery Charger, "FUL" (often misread as PUL) stands for Full. This indicator appears on the digital display to signify that the battery has reached a full charge.According to the...

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