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YDBAO 9185

YDBAO 12V 10A Intelligent Pulse Repair Car Battery Charger User Manual

Model: 9185 | Brand: YDBAO

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your YDBAO 12V 10A Intelligent Pulse Repair Car Battery Charger. Please read these instructions carefully before use and retain them for future reference. This charger is designed for 12V lead-acid batteries (4Ah-100Ah), including AGM, GEL, and LiFePO4 types, suitable for cars, motorcycles, SUVs, vans, and light trucks. It is not recommended for lithium batteries.

CARGADOR INTELIGENTE DE BATERÍA DE COCHE 12V



Coche



Motocicleta



Yate



Vehículo de ingeniería



Image: The YDBAO 12V 10A Intelligent Pulse Repair Car Battery Charger is compatible with various 12V vehicles, including cars, motorcycles, yachts, and engineering vehicles.

2. SAFETY INFORMATION

Always prioritize safety when operating electrical equipment. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Read all instructions:** Before using the charger, read all instructions and cautionary markings on the charger, the battery, and the vehicle.
- **Ventilation:** Ensure adequate ventilation during charging. Batteries can produce explosive gases.
- **Eye and Skin Protection:** Wear eye protection and protective clothing when working near batteries.
- **Avoid Sparks and Flames:** Do not smoke or allow sparks or flames in the vicinity of the battery or engine.
- **Disconnect Power:** Always disconnect the AC power cord from the outlet before connecting or disconnecting the battery clamps.
- **Correct Polarity:** Connect the red (+) clamp to the positive (+) battery terminal and the black (-) clamp to the negative (-) battery terminal. Incorrect connection will trigger protection.

- **Children and Pets:** Keep the charger and battery out of reach of children and pets.
- **Damaged Charger:** Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- **Indoor Use:** This charger is designed for indoor use. Do not expose it to rain or excessive moisture.



Image: The charger features multiple safety protections, including reverse polarity, short circuit, overcurrent, overload, overheating, fire prevention, accidental touch protection, and undervoltage protection.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- YDBAO 12V 10A Car Battery Charger
- Charging Cable (integrated)
- Smart Clamps (integrated)
- User Manual

¿QUÉ CONTIENE LA CAJA?



Longitud del cable del extremo del enchufe: 105 cm

Longitud del cable del extremo del clip: 60 cm

Image: The package includes the YDBAO 12V 10A charger, smart clamps, power cable, and user manual. Product dimensions are approximately 8 x 18 x 6 cm.

4. PRODUCT FEATURES

The YDBAO 12V 10A Intelligent Pulse Repair Car Battery Charger offers advanced features for efficient and safe battery maintenance:

- **Wide Compatibility:** Compatible with 12V lead-acid batteries from 4Ah to 100Ah (50/60Hz), including AGM, GEL, and LiFePO4 types. Suitable for various vehicles.
- **Clear LCD Display:** Features an LCD screen that shows real-time voltage, current, temperature, and charging status. Automatically detects battery status upon connection.
- **Intelligent Pulse Repair Function:** Incorporates a pulse repair mode to help restore performance of used or capacity-lost batteries by reducing sulfation and extending battery life. *Note: Not suitable for severely damaged or completely discharged batteries.*
- **Automatic Winter/Summer Mode:** Automatically adjusts charging current based on ambient temperature (above 26°C for summer, below 10°C for winter) to ensure stable charging and battery protection.

- **Multiple Safety Protections:** Equipped with protection against reverse polarity, short circuit, overcurrent, overload, and overheating. An integrated fan helps maintain optimal operating temperature.



Image: The charger offers 5 distinct charging modes for various battery types and conditions.

5. SPECIFICATIONS

Specification	Value
Brand	YDBAO
Model Name	9185
Product Dimensions	8 x 18 x 6 cm
Product Weight	600 g
Output Voltage	12 Volts

Input Voltage	170 Volts (AC)
Rated Current	10 Amperes
Amperage	10 Amperes
Connector Type	Alligator Clips
Compliant Specification	CE
Battery Capacity Range	4Ah to 100Ah

6. SETUP

Follow these steps to set up your YDBAO battery charger:

- 1. Connect to Battery:** Ensure the charger is unplugged from the AC outlet. Connect the red (+) clamp to the positive (+) terminal of the battery and the black (-) clamp to the negative (-) terminal of the battery. Ensure a secure connection.
- 2. Connect to Power:** Plug the charger's AC power cord into a standard 170V AC electrical outlet.
- 3. Automatic Mode Selection:** The charger will automatically detect the battery type and status. Use the 'MODE' button on the touch panel to select the appropriate charging mode if needed (e.g., Car, Motorcycle, AGM/GEL/LiFePO4, Pulse Repair).
- 4. Start Charging:** Once the mode is selected, charging will begin automatically. The LCD screen will display real-time charging information.



Image: Easy-to-follow steps for connecting and starting the charging process with the YDBAO charger.

7. OPERATING INSTRUCTIONS

Understanding the charger's display and modes is key to effective operation.

7.1. LCD Display Information

The LCD screen provides critical information during operation:

- **Voltage (V):** Displays the current battery voltage.
- **Current (A):** Shows the charging current.

- **Temperature (°C):** Indicates the ambient temperature, influencing automatic mode selection.
- **Charging Status:** A battery icon with bars indicates the charge level (e.g., 20%, 40%, 60%, 80%, 100%).
- **Mode Indicator:** Icons for Car, Motorcycle, AGM/GEL/LiFePO4, Wet, and Pulse Repair modes.
- **Error Indicator:** "ERO" indicates a connection error, such as reverse polarity.
- **Repair Indicator:** "PUL" indicates the pulse repair function is active.
- **Full Charge Indicator:** "FUL" indicates the battery is fully charged.



Image: The large LCD screen provides clear visualization of charging status, including temperature, voltage, current, and specific indicators for full charge, repair, and errors.

7.2. Mode Selection

Press the 'MODE' button on the touch panel to cycle through the available charging modes:

- **Car Mode:** Standard charging for car batteries.
- **Motorcycle Mode:** Optimized charging for motorcycle batteries.
- **AGM/GEL/LiFePO4 Mode:** Specific charging profiles for these battery types.
- **Wet Mode:** For traditional wet lead-acid batteries.
- **Pulse Repair Mode:** For desulfation and reconditioning of older or underperforming batteries.



Image: The 'MODE' button allows selection of specific charging programs for different battery types, including AGM/GEL/LiFePO4 and Wet batteries.

7.3. Automatic Temperature Compensation

The charger automatically detects ambient temperature and adjusts the charging current accordingly. This ensures optimal charging performance and protects the battery in both hot (summer mode, $>26^{\circ}\text{C}$) and cold (winter mode, $<10^{\circ}\text{C}$) environments.



Image: The charger features automatic temperature compensation, adapting its charging profile for optimal performance in both summer and winter conditions.

8. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your battery charger.

- **Cleaning:** Disconnect the charger from power and wipe the exterior with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure the cables are neatly coiled and not kinked.
- **Cable Inspection:** Periodically inspect the charging cables and clamps for any signs of damage, such as cuts,

fraying, or corrosion. Replace if damaged.

- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.

9. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger does not turn on	No power from outlet; loose connection	Check AC power outlet; ensure power cord is securely plugged in.
"ERO" displayed on LCD	Reverse polarity connection	Disconnect from power, then reconnect clamps with correct polarity (red to +, black to -).
Charger not charging or charging slowly	Incorrect mode selected; severely damaged battery; battery capacity too high	Ensure correct mode is selected for your battery type. The charger is not suitable for severely damaged or completely discharged batteries. Verify battery capacity is within 4Ah-100Ah range.
Charger gets hot during operation	Normal operation; blocked ventilation	Some heat is normal. Ensure the charger is in a well-ventilated area and its fan/vents are not blocked. The integrated fan helps manage temperature.
Pulse Repair mode not effective	Battery too damaged	The pulse repair function is for reconditioning, not for batteries that are severely damaged or beyond repair.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your purchase or contact the retailer where the product was acquired. Keep your proof of purchase for any warranty claims.