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› ERKUOMR 12V 10A Car Battery Charger Instruction Manual

ERKUOMR B0GHYSC9V2

ERKUOMR 12V 10A Car Battery Charger Instruction Manual

Model: B0GHYSC9V2

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your ERKUOMR 12V 10A Car Battery Charger. This intelligent pulse repair charger is designed to charge and maintain various 12V batteries, including lead-acid, AGM, Gel, and LiFePO4 types. It features advanced charging technology, a digital display, and multiple safety protections. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: Overview of the ERKUOMR 12V 10A Intelligent Pulse Repair Charger highlighting its key features.

2. SAFETY INFORMATION

Always prioritize safety when working with batteries and electrical equipment. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Read all instructions before using the charger.
- Ensure adequate ventilation during charging. Do not operate in a confined area.
- Wear eye protection and protective clothing. Avoid touching eyes while working near batteries.
- Keep children and unauthorized persons away from the charging area.
- Never charge a frozen battery.
- Do not smoke or allow sparks or flames near the battery or engine.
- Disconnect the AC power cord before connecting or disconnecting the battery clamps.
- Ensure the charger is compatible with your battery type and voltage.
- The pulse repair function is not suitable for LiFePO4 batteries.

2.1. Safety Protections

The ERKUOMR charger incorporates comprehensive safety features:

- **Overcurrent Protection:** Prevents damage from excessive current.
- **Overvoltage Protection:** Safeguards against high voltage input.
- **Undervoltage Protection:** Protects against low voltage conditions.
- **Overtemperature Protection:** Prevents overheating of the unit.
- **Short Circuit Protection:** Automatically shuts off in case of a short circuit.
- **Reverse Polarity Protection:** Prevents damage if clamps are connected incorrectly.
- **Fire Protection:** Constructed with flame-retardant ABS housing.
- **Accidental Contact Protection:** Designed to minimize risk of accidental contact.

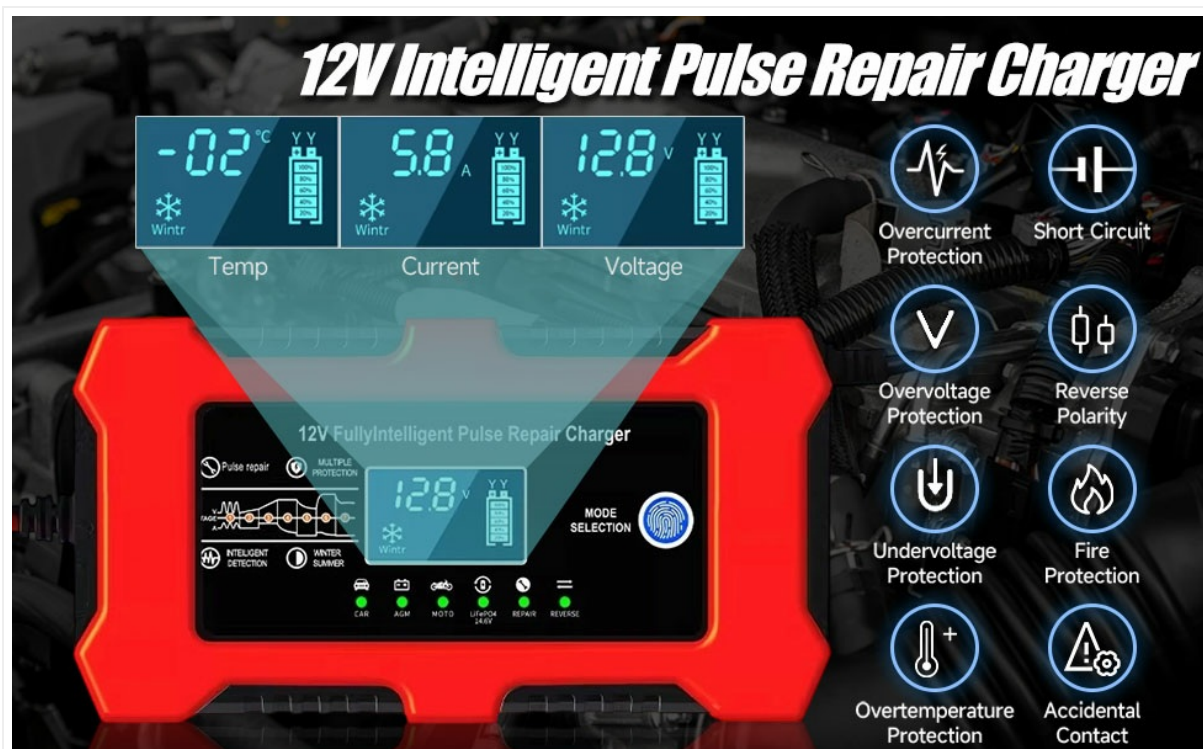


Image 2.1: Visual representation of the 8 smart protection features integrated into the charger.

3. PRODUCT FEATURES

- **10A Fast Charging:** Delivers a powerful 10A output current for efficient charging of 12V batteries from 4Ah to 100Ah.
- **Intelligent Pulse Repair Technology:** Utilizes advanced pulse repair (not for LiFePO4) to help restore sulfated batteries and extend battery life.
- **Wide Battery Compatibility:** Supports various 12V battery types including Ordinary Lead-Acid, AGM, Gel, and LiFePO4 (Lithium Iron Phosphate) batteries.
- **Intelligent Digital Display:** High-brightness LED display shows real-time charging voltage, current, and ambient temperature.
- **Temperature Adaptive System:** Automatically adjusts charging voltage based on ambient temperature for optimal charging performance in different seasons.
- **Robust Design:** Features a flame-retardant ABS housing, built-in smart silent fan for efficient heat dissipation, pure copper core power cable, and fully enclosed, wear-resistant alligator clips.
- **Wide Voltage Input:** Supports 100-240V AC input.



Image 3.1: The charger is compatible with multiple 12V battery types.

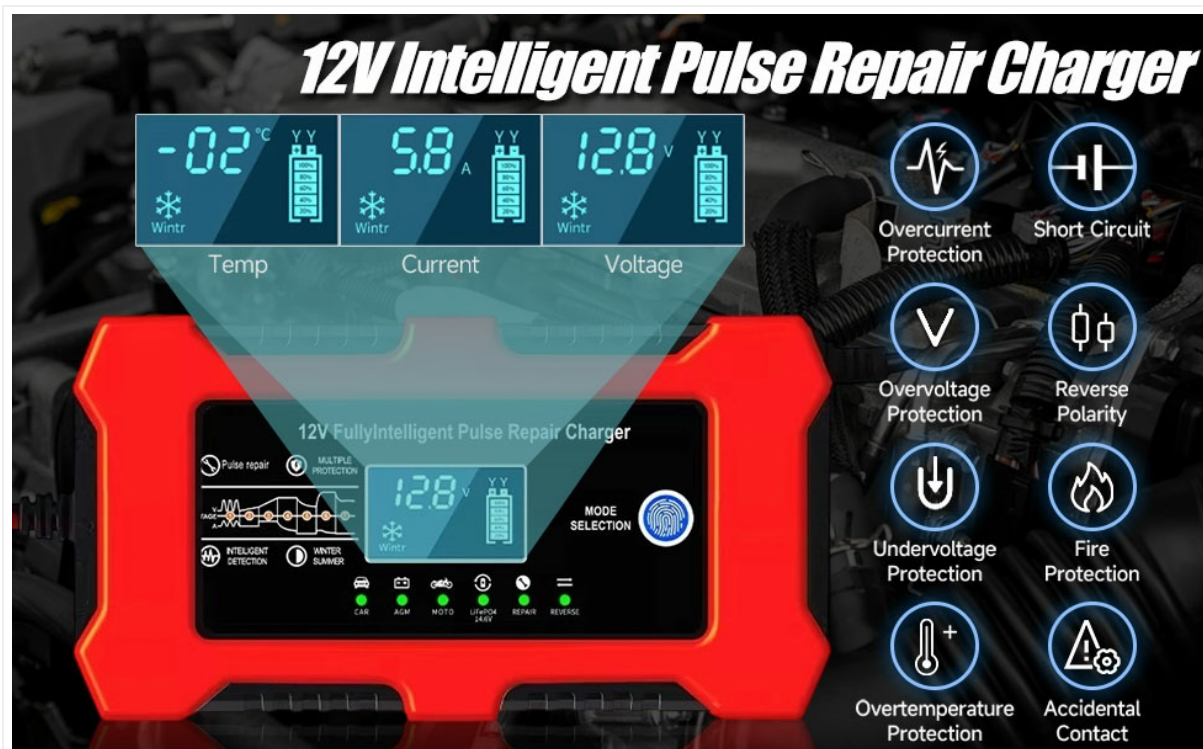


Image 3.2: The intelligent digital display and all-season adaptive charging feature.

4. PACKAGE CONTENTS

- 1 x ERKUOMR 12V 10A Car Battery Charger
- 1 x User Manual

5. SETUP

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush and baking soda solution.
2. **Connect the Charger to the Battery:**
 - Connect the **RED** positive (+) clamp to the positive (+) battery terminal.
 - Connect the **BLACK** negative (-) clamp to the negative (-) battery terminal.
 - Ensure connections are secure.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 100-240V AC electrical outlet. The charger will power on and display current battery information.

12V 10A Intelligent Pulse Repair Charger

⚡ 10A Fast Charging

🔋 LiFePO4

🔧 Intelligent Pulse Repair
(This function is not compatible with lithium iron phosphate batteries)

🌡️ Temperature compensation



Image 5.1: Correctly connecting the positive clamp to the battery.

6. OPERATING INSTRUCTIONS

- Automatic Detection:** Once connected to the battery and power, the charger will automatically detect the battery type and voltage. The display will show the current battery voltage, ambient temperature, and charging status.
- Mode Selection:** Press the "MODE SELECTION" button to cycle through the available charging modes:
 - **CAR:** For standard 12V car batteries (Lead-Acid, AGM, Gel).
 - **AGM:** Specifically for AGM batteries.
 - **MOTO:** For 12V motorcycle batteries.
 - **LiFePO4:** For 12V Lithium Iron Phosphate batteries.
 - **REPAIR:** For desulfation and repair of lead-acid batteries only. **Do NOT use this mode for LiFePO4 batteries.**

Select the mode appropriate for your battery type.

- Charging Process:** The charger will begin charging automatically after mode selection. The display will show the charging progress, voltage, and current. The built-in fan will cycle on and off during

active charging to dissipate heat. The presence of fan noise indicates active charging.

4. **Completion:** The charger will automatically stop charging when the battery is fully charged and switch to maintenance mode. The display will indicate "FUL" or 100% charge.
5. **Disconnecting:** First, unplug the AC power cord from the outlet. Then, disconnect the negative (-) black clamp, followed by the positive (+) red clamp.



Image 6.1: Using the mode selection button and understanding the display, including the repair function for lead-acid batteries.

7. MAINTENANCE

- **Cleaning:** Disconnect the charger from power and battery before cleaning. 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. Keep cables neatly coiled.
- **Cable Inspection:** Regularly inspect the power cord and battery cables for any damage, cuts, or fraying. Do not use the charger if cables are damaged.
- **Fan Maintenance:** Ensure the cooling fan vents are not obstructed to allow for proper heat dissipation.

Tenfold Smart Safety protections



Image 7.1: The charger features fully insulated alligator clips and pure copper core cables for durability and safety.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; faulty outlet; damaged power cord.	Check AC power connection and outlet. Inspect power cord for damage.
Charger connected but not charging (no fan noise).	Incorrect battery connection; battery too deeply discharged; incorrect mode selected.	Verify correct polarity of clamps. For very low batteries, try a different charger or consult a professional. Ensure correct mode is selected for battery type.
Display shows error code or abnormal readings.	Internal fault; battery fault.	Disconnect charger, wait a few minutes, then reconnect. If error persists, the battery may be faulty or the charger requires service.
Pulse repair mode not working for LiFePO4.	Pulse repair is not compatible with LiFePO4 batteries.	This is normal operation. The repair function is only for lead-acid batteries.

9. SPECIFICATIONS

Specification	Value
Brand	ERKUOMR
Model	B0GHYSC9V2
Product Dimensions (D x W x H)	3.34" x 6.3" x 2.36"
Item Weight	1.2 pounds
Input Voltage	100-240V AC

Specification	Value
Output Voltage	13.8 volts
Current Rating	10 A
Amperage	6 A (Note: Product title states 10A, specifications list 6A. Refer to product packaging for definitive rating.)
Compatible Devices	12V Lead-Acid, AGM, Gel, LiFePO4 batteries
Connector Type	Alligator Clips
Certifications	CE, FCC, UL



Image 9.1: The charger is suitable for a wide range of applications including cars, motorcycles, trucks, marine vehicles, and lawn mowers.

10. WARRANTY AND SUPPORT

This ERKUOMR product comes with a **180 Days Manufacturer Warranty**. For warranty claims or technical support, please refer to the contact information provided on your product packaging or the retailer's website where the product was purchased.

