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Husgw NY-12-B

Husgw 6A 12V Intelligent Pulse Repair Car Battery Charger User Manual

Model: NY-12-B

1. Important Safety Instructions

Please read and understand all safety information before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Battery Type Compatibility:** This charger is designed exclusively for 12V lead-acid batteries (WET, MF, GEL, AGM, EFB). **DO NOT** attempt to charge lithium-ion batteries or any other battery types. Charging incompatible batteries may cause fire, explosion, or damage.
- **Ventilation:** Ensure adequate ventilation during charging. Batteries can produce explosive gases. Do not charge in a confined area.
- **Electrical Safety:** Do not expose the charger to rain, moisture, or extreme temperatures. Always disconnect the power supply before making or breaking connections to the battery.
- **Connection Order:** Connect the red (+) clamp to the positive battery terminal and the black (-) clamp to the negative battery terminal. Ensure a secure connection.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.
- **Damaged Equipment:** Do not operate the charger if it has been dropped, damaged, or is not functioning correctly. Contact customer support for assistance.

2. Product Overview

The Husgw 6A 12V Intelligent Pulse Repair Car Battery Charger is a versatile device designed for charging and maintaining 12V lead-acid batteries. It features an intelligent LCD display, multiple protection functions, and a pulse repair mode to help restore old or idle batteries.



Image 2.1: The Husgw 6A 12V Intelligent Pulse Repair Car Battery Charger with its included battery clamps.

Key Features:

- **Durable Construction:** Features a fire-retardant ABS shell, providing resistance against wear, drops, and corrosion.
- **Intelligent LCD Display:** Provides real-time information on temperature, voltage, current, and charging status.
- **Multiple Protection:** Built-in safeguards against low voltage, short circuit, overcurrent, fire, reverse connection, overheat, and overvoltage.
- **Pulse Repair Function:** Designed to maintain and potentially reactivate weak, old, or idle batteries.
- **Climate Optimization:** Automatically adjusts charging parameters for optimal performance in both summer and winter conditions.
- **Wide Application:** Suitable for 12V lead-acid batteries in cars, motorcycles, boats, trucks, tractors, lawnmowers, and jeeps.



Image 2.2: Overview of the charger's main features including quick charging, LCD display, battery maintainer, and trickle charging capabilities.

3. Setup and Connection

Follow these steps to safely connect the charger to your battery:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
2. **Connect the Red Clamp:** Attach the red (+) positive clamp of the charger to the positive (+) terminal of the battery.
3. **Connect the Black Clamp:** Attach the black (-) negative clamp of the charger to the negative (-) terminal of the battery.
4. **Plug in the Charger:** Once the clamps are securely connected to the battery, plug the charger's power cord into a suitable electrical outlet. The charger will power on and display the current battery status.
5. **Verify Connection:** The LCD display will show battery information. If an error (e.g., "Err" for reverse polarity) is

displayed, immediately unplug the charger and recheck the connections.

4. Operating Instructions

The charger features an intelligent digital display and a 'MODE' button for selecting different charging programs.



Image 4.1: The intelligent digital display provides real-time information on charging status and battery parameters.

4.1. Understanding the Display

- **Temperature:** Displays the ambient temperature, which influences the charger's automatic climate compensation.
- **Voltage (V):** Shows the current battery voltage.
- **Current (A):** Indicates the charging current.
- **FUL (Full):** Indicates that the battery is fully charged.
- **PUL (Pulse Repair):** Indicates the pulse repair function is active.

- **Err (Error):** Indicates a fault, such as reverse polarity or a damaged battery.

4.2. Selecting Charging Modes

Press the 'MODE' button to cycle through the available charging programs. The charger will automatically detect the battery type and recommend a mode, but you can manually select if needed.



Image 4.2: The 'MODE' button allows selection between different charging programs for various battery types and conditions.

- **AUTO Mode:** Standard charging mode for most 12V lead-acid batteries. The charger intelligently adjusts current and voltage.
- **AGM/GEL Mode:** Specifically optimized for AGM and GEL type lead-acid batteries.
- **MOTO Mode:** Designed for smaller 12V motorcycle batteries.
- **PULSE Repair Mode:** Use this mode for weak, old, or idle batteries that may benefit from a pulse repair cycle. This function aims to desulfate and recondition the battery.



Image 4.3: The Smart Repair Function can help maintain or reactivate weak, old, and idle batteries.

4.3. Charging Process

Once a mode is selected, the charger will begin its multi-stage charging process. The display will show the charging progress. When the battery is fully charged, the display will indicate "FUL" and the charger will switch to a maintenance (trickle charge) mode to prevent overcharging.



Image 4.4: The charger incorporates intelligent multiple protection features for safe operation.



Image 4.5: The charger automatically optimizes its performance for various climate conditions, from summer to winter.



Image 4.6: The charger is compatible with 12V lead-acid batteries found in a wide range of vehicles, including cars, motorcycles, and trucks.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your charger.

- **Cleaning:** Disconnect the charger from power and the 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. Ensure the cables are neatly coiled and not kinked.
- **Cable Inspection:** Periodically inspect the power cord and battery clamps for any signs of damage, such as cuts, fraying, or corrosion. Do not use if damaged.

6. 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 power outlet; ensure power cord is securely plugged in.
"Err" displayed on screen.	Reverse polarity; damaged battery; short circuit.	Disconnect immediately. Recheck positive (+) and negative (-) connections. If error persists, the battery may be faulty.
Battery not charging.	Incorrect mode selected; battery deeply discharged; faulty battery.	Ensure correct mode is selected. For deeply discharged batteries, the charger may take longer to initiate charging. If no change, battery may be beyond repair.
Charger gets warm.	Normal operation during charging.	This is normal. Ensure adequate ventilation around the charger. If it becomes excessively hot, disconnect and contact support.

If the problem persists after attempting these solutions, please contact customer support.

7. Technical Specifications

Specification	Value
Brand	Husgw
Model Number	NY-12-B
Input Voltage	12 Volts
Output Voltage	24 Volts (DC)
Rated Current	6 A
Battery Composition	Lead Acid
Rechargeable Battery	No (refers to internal battery)
Product Dimensions	11.3D x 21.9W x 6.9H centimeters
Compliance	CE
Manufacturer	Tianchang Nuoyi Electronic Technology Co.LTD
Country of Origin	China

8. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, you may also visit the Husgw brand page or contact their customer service directly through the platform where the product was purchased.

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