

Husgw ZYX-J50

Husgw 10A 12V/24V Smart Automatic Battery Charger User Manual

Model: ZYX-J50

PRODUCT OVERVIEW

The Husgw 10A 12V/24V Smart Automatic Battery Charger is a sophisticated 7-stage charging system designed for a wide range of lead-acid batteries, including AGM, GEL, SLA, and flooded types. It is suitable for automotive, marine, and deep-cycle batteries found in cars, trucks, SUVs, motorcycles, lawn mowers, boats, RVs, ATVs, golf carts, tricycles, and agricultural vehicles. This charger also features a pulse repair function to help restore and extend battery life.



Image: The Husgw 10A 12V/24V Smart Automatic Battery Charger with its red and black casing and battery clamps.

SAFETY INFORMATION

Always prioritize safety when operating the battery charger. This device incorporates 11 smart charging protections

to ensure safe operation, including:

- Overcurrent Protection
- Child Safety Lock
- Overheat Protection
- Overcharge Protection
- Overvoltage Protection
- Electric Shock Protection
- Short-circuit Protection
- Reverse Connection Protection
- Low Voltage Protection
- False Contact Protection
- Fire Protection

Important Safety Precautions:

- Ensure proper ventilation during charging.
- Do not charge frozen or damaged batteries.
- Connect the charger to the battery before plugging it into the AC power outlet.
- Disconnect the AC power before disconnecting the battery.
- Keep out of reach of children. The child lock feature automatically activates after setting the battery type.

11 KINDS OF SMART PROTECTIONS

SAFER to USE



Image: Visual representation of the 11 smart protection features integrated into the battery charger for enhanced safety.

SETUP AND CONNECTION

Before connecting the charger, ensure your battery type is compatible (12V or 24V lead-acid, AGM, GEL, SLA, flooded, or LiFePO4). The charger automatically detects the battery voltage (12V or 24V).

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion.
2. **Connect Clamps:**
 - Connect the **RED** positive (+) clamp to the positive (+) terminal of the battery.
 - Connect the **BLACK** negative (-) clamp to the negative (-) terminal of the battery.
3. **Plug in Charger:** Plug the charger's AC power cord into a suitable wall outlet. The charger will power on and display current battery information.
4. **Select Mode:** Use the "MODE" touch button to select the appropriate charging mode for your battery type (e.g., CAR, MOTO, AGM, LiFePO4, REPAIR). The intelligent LCD display will show the selected mode and charging parameters.



Image: A user connecting the red and black clamps of the Husgw battery charger to a car battery.

OPERATING INSTRUCTIONS

Intelligent 7-Stage Charging Process

The charger utilizes an advanced 7-stage automatic charging process to optimize battery health and longevity. The stages are displayed on the LCD screen:

- **DES (Desulfation):** Initial stage to break down lead sulfate.
- **SS (Soft Start):** Gradually introduces power to the battery.
- **CC (Constant Current):** Charges the battery at a constant maximum current.
- **CV (Constant Voltage):** Charges at a constant voltage to reach full capacity.
- **TET (Test):** Checks battery status.
- **REC (Recondition):** Further reconditions the battery if needed.
- **FUL (Float/Full):** Maintains the battery at full charge.

SEVEN SEGMENT METEOR INDICATOR

The Indicator Light of Each Stage will be Displayed When Charging

Seven Charging Stages
are Clear at a Glance



Image: A diagram illustrating the seven distinct charging stages of the battery charger, ensuring optimal battery health.

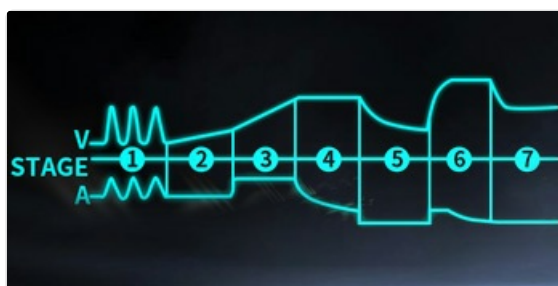


Image: A graphical representation of the current and voltage curves throughout the 7-stage charging process.

Mode Selection

The charger features a touch button for easy mode switching. The fingerprint button changes color to indicate selection.

- **CAR Mode:** For standard 12V/24V car batteries.
- **MOTO Mode:** For motorcycle batteries.
- **AGM Mode:** Specifically for AGM batteries.

- **LiFePO4 Mode:** For Lithium Iron Phosphate batteries.
- **REPAIR Mode:** For restoring old or idle batteries. Note: This mode does not have memory function.



Image: The charger's interface highlighting the multi-mode selection button and its colorful breathing gradient fingerprint lamp.

Intelligent LCD Digital Display

The smart LED screen provides real-time charging data:

- Current (A)
- Voltage (V)
- Battery Charge Level (%)
- Temperature (°C)
- Summer Mode / Winter Mode indicator
- Repair Mode indicator
- Finish indicator

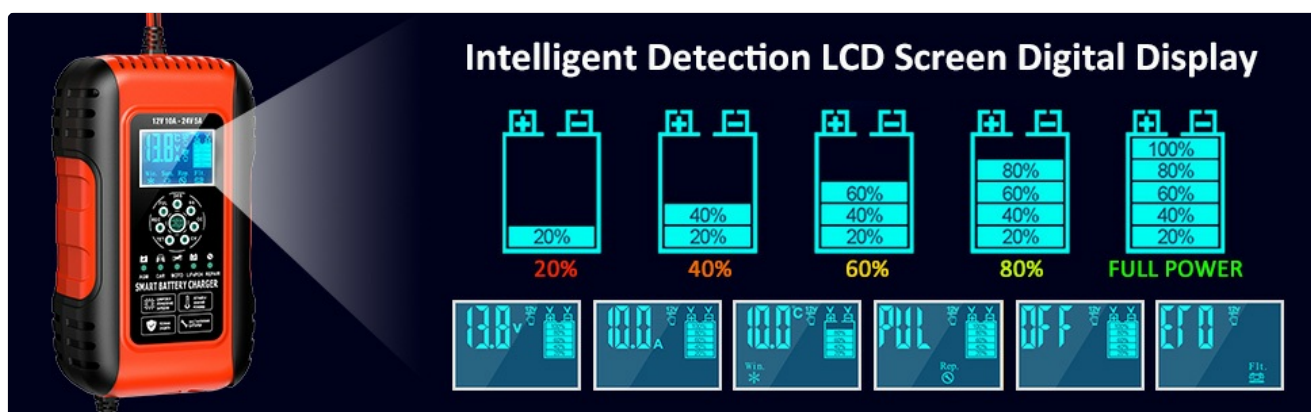


Image: Close-up of the charger's LCD screen displaying various charging parameters and status indicators.

Winter-Summer Mode

The charger automatically adjusts charging parameters based on ambient temperature:

- **Summer Mode:** Activates above 28°C (82.4°F) to prevent overcharge.
- **Winter Mode:** Activates below 10°C (50°F) for adequate charging in colder conditions.



Image: Visual comparison of the charger's automatic temperature compensation for optimal charging in both summer and winter conditions.

Pulse Repair Function

This function helps to restore old or idle batteries by reducing sulfation. It is recommended for batteries that have been idle for a long time or are unable to charge properly. Please note that it cannot activate completely dead batteries or repair severely damaged ones.

BATTERIES BACK TO LIFE

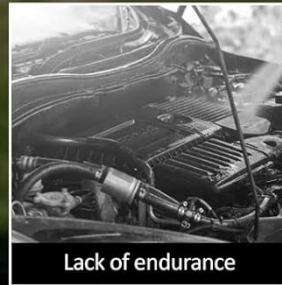
Restores LOST Performance



Car long idle time



Weak starting force



Lack of endurance



Battery aging and can't be charged



Image: The charger's pulse repair function is shown to restore lost performance in batteries affected by long idle times, weak starting force, lack of endurance, or aging.



Image: The pulse repair function of the charger connected to a battery, illustrating its ability to bring batteries back to life.

Smart Mode Memory Function

The charger remembers the last used charging mode (except Repair mode) and defaults to it after a power cycle, providing convenience for regular use.

Official Product Videos

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Video: An official product video demonstrating the features and operation of the Husgw 10-Amp Car Battery Charger, 12V/24V Smart Fully-Automatic Battery Charger.

Your browser does not support the video tag.

Video: A concise official video showcasing the Husgw 10-Amp Car Battery Charger and its key functionalities.

MAINTENANCE

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

- **Cleaning:** Wipe the charger's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled to prevent damage.
- **Cooling System:** The charger is equipped with a premium cooling fan. Ensure the fan vents are not obstructed during operation to prevent overheating.



Image: Illustration of the charger's premium cooling system, featuring a fan to dissipate heat during operation.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; loose connection; faulty charger.	Check power outlet with another device. Ensure all connections are secure. If problem persists, contact support.
Charger shows error code or does not charge.	Incorrect mode selected; battery severely discharged/damaged; reverse polarity connection.	Verify correct mode for battery type. Check battery condition (Repair mode may help). Ensure positive and negative clamps are connected correctly.

Problem	Possible Cause	Solution
Charger gets hot during use.	Normal operation; obstructed cooling vents; prolonged high current charging.	Some heat is normal. Ensure cooling vents are clear. If excessively hot, disconnect and allow to cool before resuming.
Pulse Repair function does not revive battery.	Battery is completely dead or severely damaged beyond repair.	The repair function cannot restore all batteries. Consider battery replacement if repair fails.

SPECIFICATIONS

Feature	Detail
Model Number	ZYX-J50
Input Voltage	100-240V AC, 50-60Hz
Rated Output	12V 10A, 24V 5A
Minimum Start Voltage	8.0V
Battery Range	6-180Ah
Thermal Protect	65°C +/- 5°C
Efficiency	About 85%
Dimensions (L x W x H)	9.06 x 5.31 x 2.95 inches (23 x 13.5 x 7.5 cm)
Item Weight	1.41 pounds (0.64 kg)
Color	Red, Black

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or contact Husgw customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, please visit the official Husgw website or contact their support team through the contact information provided with your product.