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E-FAST ZYX-J30

E-FAST Battery Charger User Manual

Model: ZYX-J30

Introduction

This manual provides detailed instructions for the safe and efficient operation of your E-FAST 12V/8A 24V/4A Automatic Smart Car Battery Charger. This device is designed to charge, maintain, and desulfate various 12V and 24V lead-acid batteries, including AGM, GEL, SLA, and Flooded types, commonly found in cars, trucks, SUVs, motorcycles, lawnmowers, boats, and marine applications. Please read this manual thoroughly before first use to ensure proper functionality and to prevent damage to the unit or your battery.



Image: The E-FAST 12V/24V Automatic Smart Battery Charger, featuring a red and black casing, a digital display, and attached battery clamps (red for positive, black for negative) and a power plug.

Safety Information

WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always connect the charger to the battery terminals correctly: red clamp to positive (+), black clamp to negative (-). Reverse polarity protection is built-in, but correct connection is essential.
- Ensure the charger is disconnected from the AC power outlet before making or breaking connections to the battery.
- Do not charge frozen batteries. Allow them to thaw before charging.
- Do not use the charger if the power cord or clamps are damaged. Contact customer support for replacement.
- This charger is designed for 12V and 24V lead-acid batteries only.**Do not attempt to charge lithium batteries**, as this is prohibited and may cause damage or injury.
- Ensure adequate ventilation during charging. Do not operate in an enclosed area or restrict ventilation.
- Keep out of reach of children.
- The charger is not a jump starter. It cannot activate a completely dead battery or jump-start a vehicle.
- The charger features an ABS fireproof retardant shell for enhanced safety.



Image: Visual representation of the multiple protection features including short circuit, low pressure, overcurrent, overheat, electric shock, flame retardant material, reverse connection, and overcharge protection.

Product Overview

Components

- **Main Unit:** The charger body with LCD display and control buttons.
- **Battery Clamps:** Red (+) and Black (-) clamps for connecting to battery terminals. Features fully wrapped crocodile clips and pure copper soft core wires for stable current output.
- **AC Power Cord:** For connecting the charger to a standard household power outlet (100-240V).

Intelligent Display (LCD Screen)

The LCD screen provides real-time information about the charging process and battery status.

- **Charge Voltage (V):** Displays the current charging voltage.
- **Charge Current (A):** Shows the current charging amperage.
- **Inside Temperature:** Automatically detected and displayed, influencing the charging mode (Winter/Summer).
- **Power Display:** Indicates the battery's charge level (e.g., 20%, 40%, 60%, 80%, 100%).
- **Repair Mode Indicator (PUL):** Shows when pulse repair mode is active.
- **Error/Warning Indicators (OFF/FLT):** Alerts for wrong battery connection or other faults.
- **Mode Indicators:** Icons for Vehicle, AGM/GEL, Motorcycle, and Repair modes.

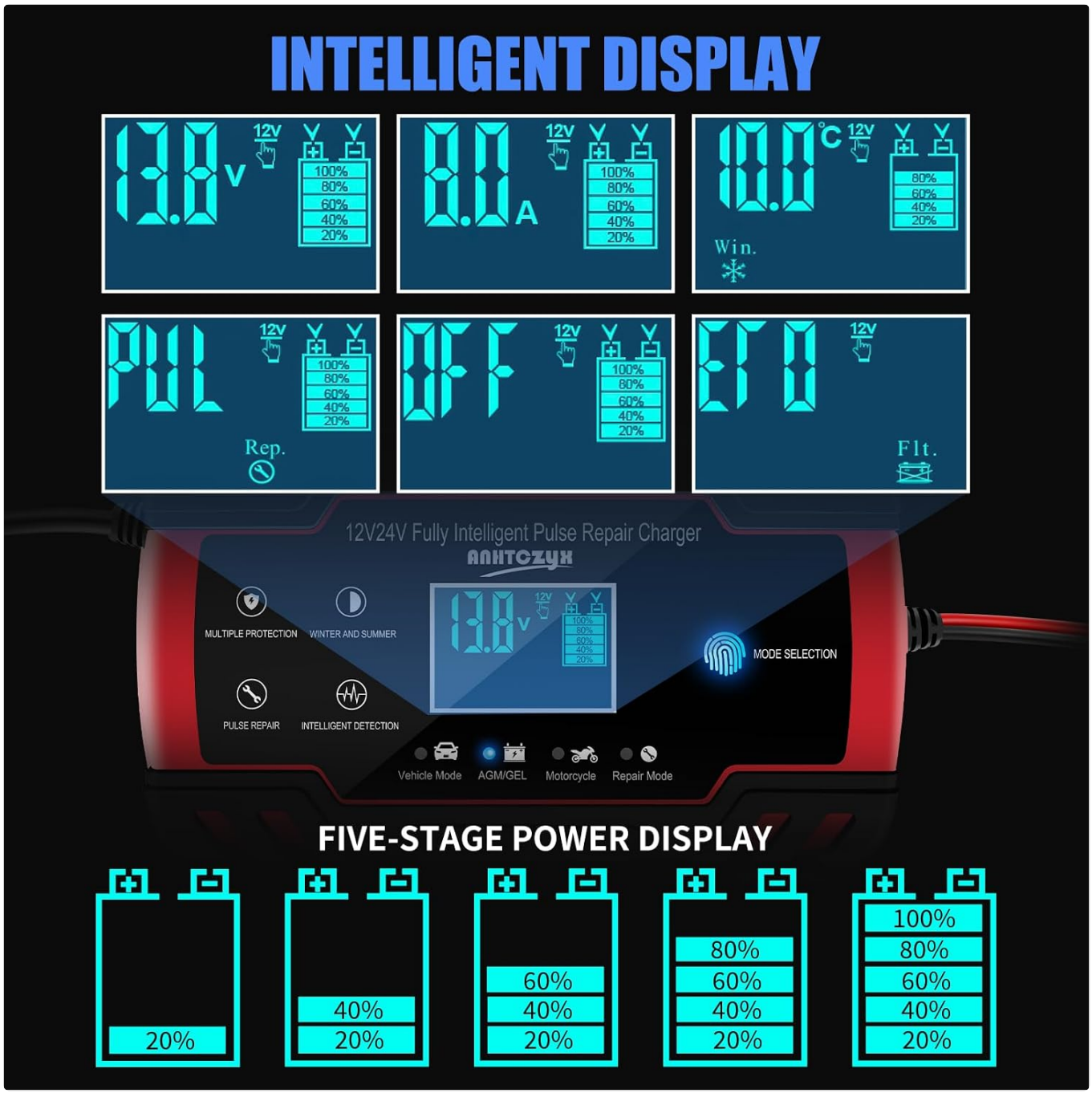

Image: A detailed view of the charger's LCD screen, illustrating different display states for voltage, current, temperature, pulse repair, and fault indicators, along with a five-stage power display for battery charge level.



Image: An illustration highlighting the durable, fully wrapped crocodile clips and the pure copper soft core wires, designed for stable

current output and to prevent overheating during charging.

Setup

Follow these steps to set up your E-FAST battery charger:

1. **Step 1: Connect to Battery**

   Ensure the charger is unplugged from the AC power outlet. Connect the red (+) battery clamp to the positive terminal of your battery. Connect the black (-) battery clamp to the negative terminal of your battery. Ensure a secure connection.

2. **Step 2: Plug into Power Outlet**

   Once the battery clamps are securely connected to the battery, plug the AC power cord into a standard 100-240V household power outlet. The charger will automatically detect the battery voltage (12V or 24V) and begin charging.

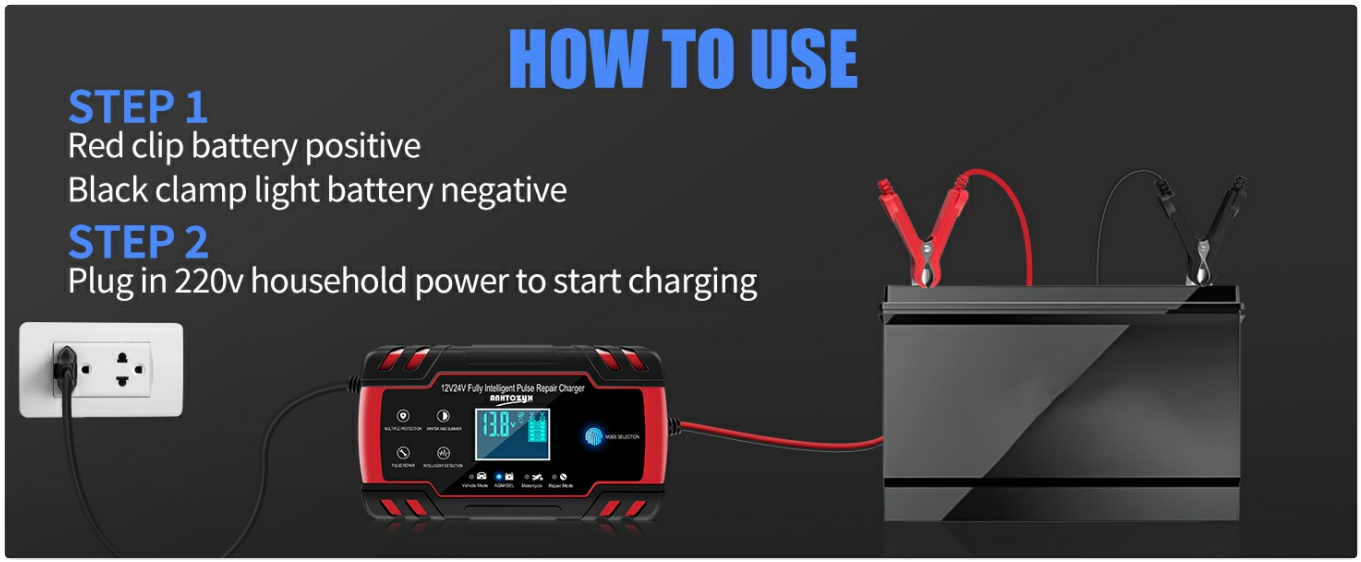

Image: A visual guide demonstrating the connection process: first, attaching the red clip to the positive battery terminal and the black clip to the negative terminal, then plugging the charger into a 220V household power outlet to initiate charging.

Operating Instructions

The E-FAST charger features an intelligent touch button for mode selection. The charger automatically detects temperature and adjusts charging parameters accordingly (Winter/Summer mode).

Automatic Charging

Upon connection to a battery and power, the charger will automatically begin charging. The LCD screen will display the charging status, including voltage, current, and battery charge level. The charger protects against overcharging, allowing it to be left connected indefinitely as a maintainer.

Mode Selection

Use the "MODE SELECTION" touch button to cycle through the available charging modes. Please ensure you select the correct battery type for optimal charging. The charger has a memory function and will default to the last used mode after a power outage.

- **Vehicle Mode:** Standard charging for automotive batteries.
- **AGM/GEL Mode:** Optimized charging for AGM and GEL type batteries.
- **Motorcycle Mode:** Suitable for smaller motorcycle batteries.

- **Repair Mode (PUL):** Activates pulse repair technology to help restore old or idle batteries by eliminating vulcanization. *Note: This mode cannot activate a completely dead battery or repair severely damaged batteries.*



Image: A detailed view of the charger's "MODE SELECTION" touch button, emphasizing the need to choose the correct battery type for charging.



Image: The E-FAST charger connected to a battery, illustrating the high-speed quick charge capability and icons for Vehicle Mode, AGM/GEL Mode, Motorcycle Mode, and Repair Mode.



Image: A collage showing the versatility of the E-FAST charger, compatible with 12V/24V 2AH-150AH lead-acid batteries found in motorcycles, cars, motoboats, trucks, engineering cars, lawnmowers, and general lead-acid batteries. It explicitly states that lithium batteries are prohibited.

Maintenance

- **Cleaning:** Disconnect the charger from power and battery before cleaning. Wipe the exterior with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Storage:** Store the charger in a cool, dry place when not in use. Ensure cables are neatly coiled and not kinked.
- **Battery Maintenance:** For long-term battery storage, use the charger's maintainer function to keep the battery optimally charged.
- **Cable Inspection:** Periodically inspect the power cord and battery clamps for any signs of damage, fraying, or corrosion. Replace if damaged.

Troubleshooting

Problem	Possible Cause	Solution
Charger not turning on/display off.	No power from outlet; loose connection; charger fault.	Check power outlet; ensure AC cord is securely plugged in; check battery connections.
"FLT" or "OFF" error on display.	Reverse polarity connection; short circuit; battery fault.	Disconnect and reconnect clamps correctly (red to +, black to -); check for short circuits; battery may be too damaged to charge.
Battery not charging or charging slowly.	Incorrect mode selected; battery severely discharged/damaged; high internal resistance.	Ensure correct mode (e.g., AGM/GEL for those types); try Repair Mode (PUL); battery may need replacement if severely damaged.
Charger gets warm during operation.	Normal operation; poor ventilation.	Some warmth is normal. Ensure adequate ventilation around the charger. If excessively hot, disconnect and contact support.



Image: The E-FAST charger displayed alongside common battery problems it can help repair, such as those from long idle time, low voltage/weak power, and battery aging. It clarifies that it is a battery maintainer, not a jump starter.

Specifications

Feature	Detail
Model Number	ZYX-J30
Input Voltage	100-240V AC
Output Voltage	12V / 24V DC (Auto-detection)
Output Current	12V/8A, 24V/4A
Battery Types	12V/24V Lead-Acid (AGM, GEL, SLA, Flooded)
Battery Capacity Range	2AH - 150AH
Product Dimensions	6.7 x 2.3 x 3.9 inches
Item Weight	1.52 pounds
Safety Certifications	UL, FCC, RoHS
Protection Features	Reverse Polarity, Overheating, Overcurrent, Overvoltage, Short Circuit, Electric Shock, Low Pressure, Flame Retardant Material
Operating Temperature	Automatic Winter/Summer Mode adjustment based on ambient temperature.

Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact E-FAST customer service directly. Keep your purchase receipt as proof of purchase.
Manufacturer: E-FAST
Country of Origin: China

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