E-FAST TK360

E-FAST 6 amp Smart Battery Charger User Manual

Model: TK360 | Brand: E-FAST

Introduction

This user manual provides comprehensive instructions for the E-FAST 6 amp Smart Battery Charger, Model TK360. This versatile charger is designed for fast charging and maintaining various 12V batteries, including lead-acid (flooded, gel, AGM, SLA) and LiFePO4 batteries, commonly found in cars, trucks, motorcycles, lawn mowers, and marine vehicles. Please read this manual thoroughly before operation to ensure safe and efficient use.

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 an enclosed area.
- Wear eye protection and protective clothing when working with batteries.
- Keep the charger away from flammable materials and sources of ignition.
- Do not charge frozen batteries.
- Disconnect the AC power before connecting or disconnecting battery clamps.
- Keep out of reach of children. The child lock feature automatically activates during charging for added safety.
- This charger is designed for 12V batteries only. Do not attempt to charge other voltage batteries.

Product Features

- **2-in-1 Charger:** Functions as a charger, maintainer, and desulfurizer for 12V lead-acid (flooded, gel, AGM, SLA) and LiFePO4 batteries.
- **Large Screen Digital Display:** Features a cool color display showing charging status, battery status, voltage, current, and battery percentage.
- **One-Click Mode Selection:** Easily switch between different charging modes (Car, LiFePO4, Moto, Repair) with a single button.
- **Efficient Pulse Repair:** Utilizes high-power, high-frequency, low-frequency pulse technology to help eliminate vulcanization and restore lost performance in old or idle batteries. *Note: This function cannot activate a dead battery*

or repair a physically damaged battery.

- **Upgraded Charging Protections:** Includes reverse polarity, overheating, overcurrent/overvoltage, and short circuit protection. Optimized for various temperature environments.
- **Child Lock:** Automatically activates during charging to enhance safety.
- **Lightweight and Portable:** Weighing only 1 lbs, it's easy to carry and store.
- **Automatic Stop:** Automatically stops charging when the battery is full, eliminating the need for constant monitoring.
- **Memory Function:** The charger remembers the last used mode after a power outage.

Package Contents

- E-FAST Smart Battery Charger (Model TK360)
- Battery Clamps (Red for Positive, Black for Negative)
- User Manual

Setup and Connection

Follow these steps to properly connect and begin charging your battery:

1. Ensure the charger is unplugged from the AC power outlet.
2. Connect the red (+) battery clamp to the positive (+) terminal of your battery.
3. Connect the black (-) battery clamp to the negative (-) terminal of your battery.
4. Plug the charger's AC power cord into a standard 100-240V AC power outlet. The charger will power on and display the current battery voltage.
5. Select the appropriate charging mode using the "Mode" button on the charger's display. Refer to the "Operating Modes" section for details.



Image: E-FAST Smart Battery Charger with its included battery clamps and power plug.



Image: The E-FAST charger connected to a car battery, demonstrating proper clamp placement.



Image: A visual guide illustrating the correct sequence for connecting the charger to a battery and power source.

Your browser does not support the video tag.

Video: This video demonstrates the connection process of the E-FAST battery charger to a battery and how to select different charging modes.

Operating Modes

The E-FAST Smart Battery Charger features multiple operating modes to suit different battery types and charging needs. Use the "Mode" button to cycle through the available options:

- **Car Mode:** Ideal for standard 12V automotive lead-acid batteries (flooded, gel, AGM, SLA).
- **LiFePO4 Mode:** Specifically designed for 12V Lithium Iron Phosphate batteries.
- **Moto Mode:** Suitable for 12V motorcycle batteries and other smaller capacity lead-acid batteries.
- **Repair Mode:** Activates the pulse repair function to help recondition sulfated or idle batteries. This mode is not for charging and should be used on batteries that are not severely damaged.

The large digital display will clearly indicate the selected mode, current voltage, current amperage, and battery charge percentage. The charger will automatically stop when the battery reaches full charge.



Image: The charger's display highlighting the different selectable modes for various battery types.



Image: An illustration of the wide range of vehicles and battery types that can be charged with this device.

Your browser does not support the video tag.

Video: This video showcases the charger's ability to charge different battery types, including LiFePO4, and its various modes.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your E-FAST Smart Battery Charger:

- Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the charger in a cool, dry place when not in use.
- Inspect the power cord and battery clamps regularly for any signs of damage. Do not use the charger if any part is damaged.
- Ensure connections are secure and free of corrosion before each use.

Troubleshooting

If you encounter issues with your E-FAST Smart Battery Charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on.	No AC power; loose connection.	Check the power outlet and ensure the charger is securely plugged in.
Charger shows error or "OFF" display.	Incorrect battery connection (reverse polarity); battery too low/damaged.	Verify positive and negative clamp connections. Ensure battery voltage is above minimum start voltage (8.0V). If battery is severely damaged, it may not be recoverable.
Charging is slow or not completing.	Incorrect mode selected; battery capacity too large; battery sulfation.	Ensure the correct mode is selected for your battery type. For sulfated batteries, try the "Repair Mode" (if applicable).

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

Specifications

Feature	Detail
Type	Smart & Automatic
Input Voltage	100-240V AC, 50-60Hz
Rated Output	12V 6A
Minimum Start Voltage	8.0V
Battery Range	2-150Ah
Cooling	Fan
Thermal Protection	65°C +/- 5°C
Dimensions (D x W x H)	2.5" x 6.1" x 3" (63.5mm x 154.9mm x 76.2mm)
Weight	1 lbs (453g)

Warranty and Support

E-FAST products are manufactured to the highest quality standards. For warranty information, technical support, or any questions regarding your product, please contact E-FAST customer service through the retailer where you purchased the product or visit the official E-FAST website for contact details.

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Example: How do I reset this device or fix this error?

Details

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