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## E-FAST TK-1200

# E-FAST 12V/24V Intelligent Battery Charger User Manual

Model: TK-1200

## 1. INTRODUCTION

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This user manual provides detailed instructions for the E-FAST 12V/24V Intelligent Battery Charger (Model: TK-1200). This versatile 7-stage smart charger is designed for fast charging and maintaining various 12V and 24V batteries, including lead-acid (flooded, gel, AGM, SLA, GEL) and LiFePO4 batteries. It features advanced charging protections, temperature adaptive modes, and a user-friendly display.



Figure 1: E-FAST 12V/24V Intelligent Battery Charger (Model TK-1200) with its display and battery clamps.

## 2. SAFETY INSTRUCTIONS

Always read and understand all safety instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure proper ventilation during charging.
- Do not expose the charger to rain or wet conditions.
- Connect the charger to the battery terminals correctly (red to positive, black to negative).
- Avoid short-circuiting the battery clamps.
- Do not attempt to charge non-rechargeable batteries.
- Keep out of reach of children. The charger has a child lock feature that automatically activates during charging.
- The charger is made of flame-retardant material for enhanced safety.
- This device is a battery charger and maintainer, not a jump starter. It cannot activate a dead battery or repair a damaged battery.

### 3. SETUP

1. **Unpacking:** Carefully remove the E-FAST charger and all accessories from the packaging. Inspect for any damage.
2. **Cable Management:** The portable car battery charger features clips on both sides to store the power cord and battery clamps neatly.
3. **Placement:** Place the charger on a stable, flat surface. The foldable support feet can be extended for optimal viewing angle. Ensure adequate ventilation around the unit.
4. **Power Connection:** Connect the AC power plug to a standard 100-240V AC outlet.



Figure 2: The charger features a foldable handle and integrated clips for neat cable storage.

### 4. OPERATING INSTRUCTIONS

1. **Connect to Battery:**
  - Connect the red (+) clamp to the positive terminal of the battery.
  - Connect the black (-) clamp to the negative terminal of the battery.

- Ensure a secure connection.

## 2. Select Charging Mode:

The charger features a bright LED display and a mode selection button. Press the mode button to cycle through the available charging modes:

- **CAR Mode:** For 12V/24V lead-acid automotive batteries (flooded, gel, AGM, SLA, GEL).
- **LiFePO4 Mode:** Specifically for lithium LiFePO4 batteries.
- **MOTO Mode:** For motorcycle batteries.
- **REPAIR Mode:** For battery rejuvenation (desulfation). Note: This mode is primarily for lead-acid batteries and cannot activate dead batteries.



Figure 3: The charger's display allows selection of different charging modes.

## 3. Automatic Temperature Compensation: The charger automatically adjusts the charging voltage based on ambient temperature.

- **Winter Mode:** Automatically increases charging voltage in cold conditions for a more complete charge.
- **Summer Mode:** Lowers charging voltage in hot conditions to prevent overcharging.

4. **Charging Process:** The charger employs a 7-stage smart charging process to precisely and gently optimize battery power. The display will show charging progress (e.g., 25%, 50%, 75%, 100%) and real-time information such as internal temperature, charge voltage, and charge current.
5. **Completion:** Once the battery is fully charged, the display will indicate "FULL" or 100%. The charger will automatically switch to maintenance mode to prevent overcharging.

## Official Product Videos

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Video 1: "tk1200 battery charger" - This video provides an unboxing and initial overview of the TK-1200 battery charger, demonstrating its features and different modes.

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Video 2: "0-25A Battery Charger" - This video showcases the charger's ability to handle various battery types and its smart charging capabilities.

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Video 3: "20A Battery Charger" - A brief overview highlighting the 20A charging capability and compact design.

## 5. MAINTENANCE

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- **Cleaning:** Regularly wipe the charger's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the charger in a cool, dry place. Utilize the integrated cable clips for tidy storage.
- **Ventilation:** Ensure the large silent fans are free from obstructions to allow for proper heat dissipation.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Charger not turning on.	No power supply; loose connection.	Check AC power outlet and ensure all connections are secure.
"OFF" displayed on screen.	Not connected to a battery or incorrect battery connection.	Connect battery clamps correctly (red to positive, black to negative).
"dE5" mode displayed during charging.	Charger is automatically adjusting.	No action required. Wait at least 5 minutes for the charger to automatically adjust and begin charging.
Charger gets hot.	Normal operation; obstructed ventilation.	Ensure vents are clear. The large silent fans are designed for efficient heat dissipation.
Battery not charging.	Battery is severely damaged or dead; incorrect mode selected.	This charger cannot activate a dead battery or repair a severely damaged one. Verify correct mode selection for your battery type.

## 7. SPECIFICATIONS

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- **Model:** TK-1200
- **Brand:** E-FAST
- **Input Power:** 100-240V AC
- **Output Voltage:** 12V / 24V
- **Charging Current:** 12V 20 Amp, 24V 10 Amp

- **Battery Types Supported:** 12V and 24V Lead-Acid (Flooded, Gel, AGM, SLA, GEL), Lithium LiFePO4
- **Charging Stages:** 7-stage smart charging
- **Protection Features:** Reverse polarity, overheating, overcurrent/overvoltage, short circuit, child lock, electric shock, false touch, flame-retardant shell, reverse connection, overcharge.
- **Product Dimensions:** 4.9"D x 7.8"W x 3.7"H
- **Item Weight:** 1.8 pounds (approx. 0.82 kg)
- **Color:** Yellow and Black
- **Manufacturer:** EFAST
- **Country of Origin:** China

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official E-FAST website. Protection plans may be available for purchase separately to extend coverage.

- **Protection Plans:**
  - 2-Year Protection Plan: \$3.99
  - 3-Year Protection Plan: \$5.99
  - Complete Protect: \$16.99/month (covers all eligible past and future purchases)