

EAFC H-10CD

EAFC 10A Smart Fully Automatic Car Battery Charger User Manual

MODEL: H-10CD

1. Product Overview

The EAFC 10A Smart Fully Automatic Car Battery Charger is an intelligent device designed for charging and maintaining various lead-acid batteries, including those found in cars, motorcycles, lawnmowers, and marine vessels. It features advanced temperature compensation, a multi-stage charging system, and a pulse repair function to optimize battery performance and extend its lifespan.



Figure 1.1: EAFC 10A Smart Fully Automatic Car Battery Charger with included accessories.

This charger is compatible with both 12V and 24V batteries and comes with an extended power cable and a portable storage box for convenience.

2. Key Features

- **Smart Automatic Charging:** The charger intelligently adapts to ambient temperature, adjusting charging voltage for safe and efficient charging. It automatically stops charging when the battery is full.
- **Pulse Repair Function:** Helps to revive weak or sulfated batteries, potentially extending their service life.
- **Multi-Stage Charging:** Features a 9-stage charging process that precisely optimizes battery performance.

VERLÄNGERUNG DER BATTERIE-LEBENSDAUER

9-stufiger Ladevorgang optimiert die
Akkuleistung präzise und

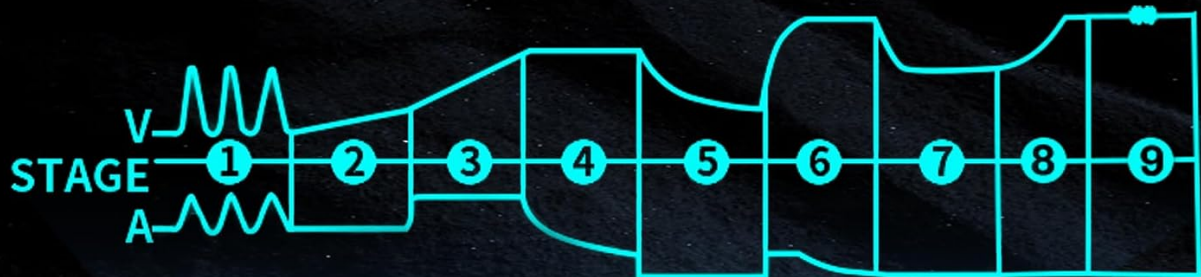


Figure 2.1: The 9-stage charging process optimizes battery performance and extends its lifespan.

- **Wide Compatibility:** Supports 12V and 24V lead-acid batteries, including AGM, GEL, SLA, flooded (WET), and calcium deep cycle batteries (50Ah-100Ah for 12V).



Figure 2.2: The charger is compatible with a wide range of vehicles and battery types.

- **Digital LCD Display:** Provides real-time information on charging status, battery status, charging voltage, and current.
- **Safety Protections:** Includes reverse polarity protection to prevent damage from incorrect connections.
- **Portable Storage Box:** Comes with a dedicated storage box for easy organization and transport.

3. Setup

1. **Unpack the Charger:** Carefully remove the charger and all accessories from the packaging. Inspect for any signs of damage.
2. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
3. **Connect to Battery:**
 - Connect the **red (+) clamp** to the **positive (+) battery terminal**.
 - Connect the **black (-) clamp** to the **negative (-) battery terminal**.

Ensure a secure connection. The charger has reverse polarity protection, but correct connection is always recommended.



Figure 3.1: Ensure proper connection of the clamps to the battery terminals.

4. **Connect to Power:** Plug the charger's power cord into a standard 230V household socket. The LCD display will illuminate, showing the current battery status.

Safety Note: This charger is designed for lead-acid batteries only. Do not attempt to charge other battery types.

4. Operating Instructions

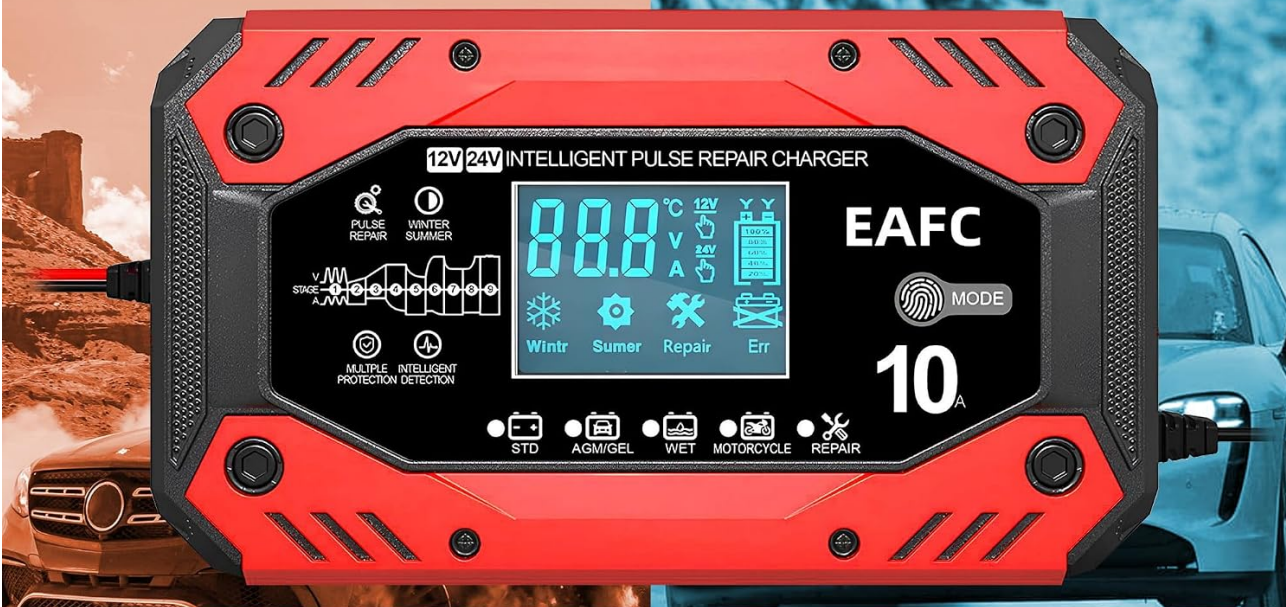
Once connected to the battery and power, the charger will automatically detect the battery type (12V or 24V) and the ambient temperature, adjusting the charging process accordingly.

1. **Automatic Mode Selection:** The charger automatically selects the appropriate charging mode (e.g., Summer Mode if temperature is above 28°C, Winter Mode if temperature is below 0-10°C).

Optimiert für jedes Klima

Heißer Sommer

Kalter Winter





Sicheres Laden im Sommer

Wechselt automatisch in den Sommermodus, wenn die Temperatur über 28 °C liegt



Leistungsstarkes Laden im Winter

Wechselt automatisch in den Wintermodus, wenn die Temperatur unter 0–10 °C liegt

Figure 4.1: The charger automatically adjusts for optimal charging in different climates.

2. **Manual Mode Selection (if needed):** Press the 'MODE' button to cycle through available charging modes such as STD (Standard), AGM/GEL, WET, MOTORCYCLE, and REPAIR. Select the mode that matches your battery type and desired function.

Mehrere Modi zum Wechseln



Figure 4.2: Use the 'MODE' button to select the appropriate charging program.

3. **Monitoring Charging:** The LCD display will show charging progress, voltage, current, and battery percentage. The display will show a full grid when the battery is fully charged.
4. **Pulse Repair Function:** To use the repair function, select the 'REPAIR' mode. This function is designed to help desulfate and recondition old or weak batteries.
5. **Disconnecting:** Once charging is complete, first unplug the charger from the AC power outlet, then disconnect the black (-) clamp from the negative battery terminal, and finally disconnect the red (+) clamp from the positive battery terminal.

5. Maintenance

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in its provided storage box in a cool, dry place when not in use.



Figure 5.1: The included storage box helps keep the charger organized and protected.

- **Cable Care:** Ensure the power cable and battery clamps are not damaged. If the power supply cord is damaged, it must be replaced by a qualified professional.
- **Battery Maintenance:** For optimal battery health, regular charging and maintenance with the EAFC charger can help prolong battery life, especially during periods of long-term storage.

6. Troubleshooting

Problem	Possible Cause	Solution
Charger not turning on	No power from outlet; loose connection; faulty charger.	Check power outlet; ensure secure connections; contact support if issue persists.
"Err" displayed on screen	Reverse polarity connection; battery fault; incorrect battery type.	Check clamp connections (red to +ve, black to -ve); ensure battery is lead-acid; test battery condition.

Problem	Possible Cause	Solution
Battery not charging	Battery is severely discharged/damaged; incorrect mode selected.	Try 'REPAIR' mode for deeply discharged batteries; ensure correct mode is selected for battery type.
Charger gets warm	Normal operation during charging.	This is normal. Ensure adequate ventilation around the charger.

7. Specifications

Parameter	Value
Model Number	H-10CD
Input Parameters	110V-240V / 50-60Hz
Output Parameters	12V-15.5V / 24V-31V
Rated Power	180 W
Output Current	12V/10A, 24V/5A
Product Dimensions	15.8D x 6.2W x 9H cm
Item Weight	560 Grams
Color	Red
Product Certification	CE/ROHS/FCC

Nettogewicht: 0,750 kg

Manuelle Messung, bitte erlauben Sie einen Messfehler von 1-2 cm.

Länge: 185.0cm/72.83inch

18.00cm/7.09inch

22.00cm/8.66inch

Länge: 190.0cm/74.80inch

9.00cm/3.54inch

15.5cm/6.10inch

Figure 7.1: Physical dimensions of the charger and its components.

8. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.

If you require further assistance or have questions not covered in this manual, please reach out to EAFC customer service.

For product guides and documents, including a German version of the instruction manual, please refer to the product listing page where you purchased the item. A demonstration video may also be available there.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question