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› EAFCAuto 2A Smart Battery Charger Model H-2 User Manual

EAFCAuto H-2

EAFCAuto 2A Smart Battery Charger User Manual

Model: H-2

1. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety information before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **DANGER:** This charger is designed for **12V 2Ah-20Ah lead-acid batteries ONLY. DO NOT charge lithium batteries** or any other battery types, as this may cause fire, explosion, or damage to the charger and battery.
- Always connect the charger to the battery terminals correctly: red clamp to positive (+), black clamp to negative (-).
- Ensure the charger is disconnected from the power outlet before making or breaking connections to the battery.
- Use the charger in a well-ventilated area.
- Keep the charger away from water, moisture, and flammable materials.
- Do not operate the charger if it has been damaged in any way.
- Keep out of reach of children.

2. PRODUCT OVERVIEW

The EAFCAuto 2A Smart Battery Charger is an intelligent device designed to charge and maintain 12V lead-acid batteries. It features a microcontroller for real-time charging status display and multiple protection mechanisms to ensure safe and efficient charging.

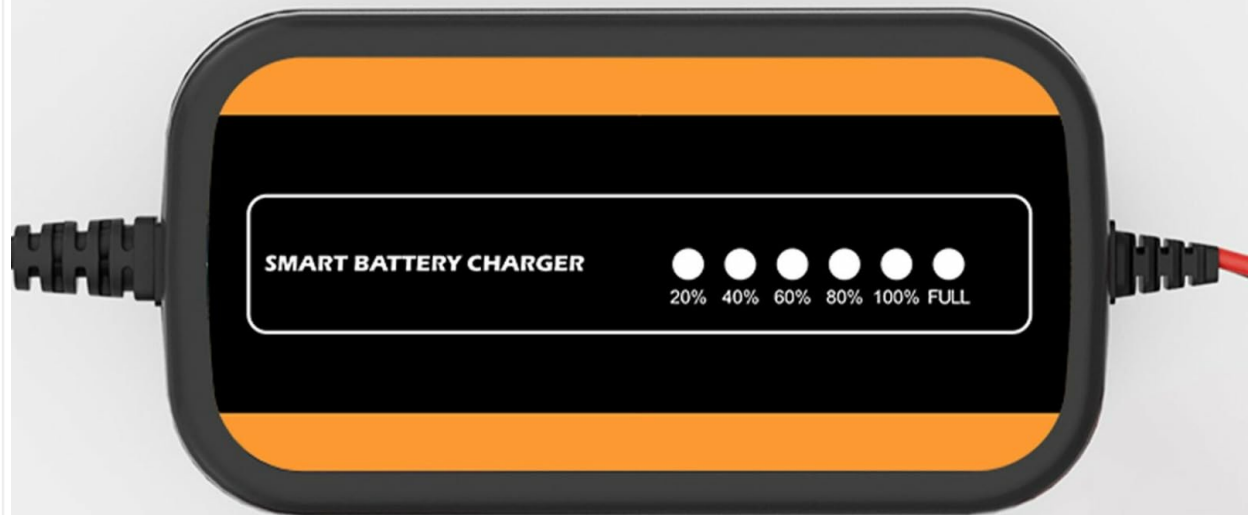


Image 2.1: Front view of the EAFCAuto 2A Smart Battery Charger with connected cables.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x EAFCAuto 12V 2A Smart Battery Charger
- 1 x User Manual

4. SPECIFICATIONS

Technical specifications for the EAFCAuto 2A Smart Battery Charger:

PARAMETER

THE FOLLOWING ARE THE BASIC PARAMETERS OF THE PRODUCT



Model NO:	H-2
Suitable battery:	12V 2Ah-20Ah
Input Voltage:	100V-240V AC
Input AC frequency:	50/60HZ
Use Environment:	-15 °C ~+55 °C 5 °F ~131 °F
Relative Humidity:	> =90%

Image 4.1: Detailed view of the charger's dimensions and technical parameters.

Parameter	Value
Model Number	H-2
Suitable Battery Type	12V Lead-Acid (2Ah-20Ah)
Input Voltage	100V-240V AC
Input AC Frequency	50/60Hz
Output Voltage	14.4V ± 0.2V
Output Current	2A
Product Dimensions (L x W x H)	5.51" x 2.8" x 3.14" (14.00cm x 7.11cm x 7.98cm)
Operating Environment Temperature	-15 °C to +55 °C (5 °F to 131 °F)
Relative Humidity	≥ 90%

5. SETUP AND CONNECTION

Follow these steps to safely connect the charger to your battery:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If necessary, clean them with a wire brush.
2. **Connect to Battery:** First, connect the **red (+) positive clamp** of the charger to the **positive (+) terminal** of the battery. Then, connect the **black (-) negative clamp** of the charger to the **negative (-) terminal** of the battery. Ensure a secure connection.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 100V-240V AC wall outlet.
4. The charger will automatically begin the charging process and display the current battery status.

Important: Always connect the battery clamps before plugging the charger into the AC power outlet. Disconnect the AC power first before removing the battery clamps.

6. OPERATING INSTRUCTIONS

The EAFCAuto Smart Battery Charger features an intelligent microcontroller that monitors and displays the charging status in real-time.



Image 6.1: Close-up of the charger's LED display indicating charging progress.

6.1 LED Display Indicators

The charger's display panel features a series of LED lights that indicate the battery's charge level:

- **20% Light:** Illuminates when charging begins, indicating a low charge level.
- **40% Light:** Illuminates as the battery charges further.
- **60% Light:** Illuminates as the battery charges further.
- **80% Light:** Illuminates as the battery approaches full charge.
- **100% FULL Light:** Illuminates when the battery is fully charged. The charger will automatically stop charging to prevent overcharge.

6.2 Automatic Charging and Maintenance

Once connected and powered, the charger will automatically detect the battery's state and initiate the

appropriate charging cycle. When the battery reaches full charge (100% FULL light), the charger will automatically switch to a maintenance mode (trickle charge) to keep the battery at optimal capacity without overcharging. This ensures security and stability for long-term connection.

7. PROTECTION FEATURES

The EAFCAuto Smart Battery Charger is equipped with multiple safety features to protect both the charger and your battery:



Image 7.1: Visual representation of the charger's five key protection features.

- **Sealed Shell:** Provides protection against environmental elements, preventing damage from sudden rainfall in outdoor charging scenarios.
- **Flame Retardant Material:** Constructed with materials that meet flame retardant requirements for enhanced safety.
- **Anti-Reverse Connection Protection:** Prevents damage if the battery clamps are connected with incorrect polarity.
- **Overheat Protection:** Monitors internal temperature and reduces output or shuts down if overheating occurs.

- **Automatic Power-Off When Fully Charged:** Automatically stops charging once the battery reaches full capacity, preventing overcharging and extending battery life.

8. SCOPE OF USE

This charger is suitable for 12V lead-acid batteries ranging from 2Ah to 20Ah. It is ideal for various applications, including:



Image 8.1: Illustrates various applications for the 12V 2Ah-20Ah lead-acid battery charger.

- Motorcycles
- Scooters
- Tricycles
- Cars (small batteries)
- Jeeps (small batteries)
- Jet Skis
- Other 12V lead-acid batteries within the 2Ah-20Ah range.

9. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your charger:

- **Cleaning:** Disconnect the charger from both the AC outlet and the battery before cleaning. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Cable Inspection:** Regularly inspect the AC power cord and battery cables for any signs of damage, cuts, or fraying. Do not use the charger if cables are damaged.
- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.
- **Battery Terminals:** Keep battery terminals clean to ensure good electrical contact.

10. TROUBLESHOOTING

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

- **Charger Not Turning On:**
 - Ensure the AC power cord is securely plugged into a working outlet.
 - Check if the outlet has power by plugging in another device.
- **Battery Not Charging / No LED Activity:**
 - Verify that the battery clamps are correctly connected to the battery terminals (red to positive, black to negative).
 - Ensure the battery terminals are clean and free of corrosion for good contact.
 - Confirm the battery is a 12V lead-acid type within the 2Ah-20Ah range.
 - The battery might be severely discharged or faulty. Try charging a different, known-good battery if possible.
- **Charger Overheating:**
 - Ensure the charger is in a well-ventilated area and not covered.
 - If overheating persists, disconnect immediately and contact support.
- **Charger Displays Error (if applicable):**
 - While this model primarily uses charge level indicators, any unusual flashing or non-standard light patterns may indicate an issue. Disconnect and reconnect the charger. If the issue persists, contact support.

11. WARRANTY AND SUPPORT

The EAFCAuto 2A Smart Battery Charger comes with full technical support. For any questions, concerns, or technical assistance, please refer to the seller's contact information provided at the point of purchase.

For information regarding extended protection plans, please consult the details provided by your retailer at the time of purchase.

