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› [FOXSUR 12V/24V 6Amp Intelligent Car Battery Charger Instruction Manual](#)

FOXSUR FOXSUR 12V/24V 6Amp Intelligent Battery Charger/Maintainer (ASIN: B089SCZZ1)

FOXSUR 12V/24V 6Amp Intelligent Car Battery Charger

Model: 12V/24V 6Amp Full Automatic Intelligent Charger/Maintainer (ASIN: B089SCZZ1)

Brand: FOXSUR

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your FOXSUR 12V/24V 6Amp Full Automatic Intelligent Car Battery Charger/Maintainer. This versatile charger is designed to charge and maintain various battery types, including lithium batteries and most types of lead-acid batteries (Calcium, GEL, AGM, Wet, EFB, etc.). It features a 7-stage charging process for comprehensive battery protection and an intelligent digital display for monitoring charging status.



Image 1.1: The FOXSUR 12V/24V 6Amp Intelligent Car Battery Charger with its display and connection cables.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before operating the charger. Failure to do so may result in electric shock, fire, or serious injury.

- **Disconnect Power:** Always turn off the power source before connecting or disconnecting the charger to the battery.
- **Polarity Protection:** The charger features polarity protection. Ensure correct connection of the red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
- **Ventilation:** Ensure adequate ventilation during charging, especially for lead-acid batteries, as they can produce explosive gases.
- **Battery Condition:** This charger cannot activate a completely dead battery or repair a severely damaged battery. It also cannot restore a battery to 100% new condition if it has significant degradation.

- **Protection Features:** The charger is equipped with built-in circuit protection against reverse polarity, sparks, overcharging, over-current, open-circuits, short-circuits, and overheating.
- **Indoor Use:** Use the charger in a dry, well-ventilated area. Avoid exposure to rain or moisture.



Image 2.1: Visual representation of the charger's multiple protection features, including over-current, over-voltage, reverse polarity, short-circuit, and over-heat protection.

3. PRODUCT FEATURES

The FOXSUR Intelligent Car Battery Charger offers advanced features for efficient and safe battery charging and maintenance:

- **7-Stage Charging:** Provides a comprehensive charging process to optimize battery life and performance.
- **Automatic Charging:** Automatically protects your battery from overcharging, allowing the charger to remain connected indefinitely.
- **Repair Function:** Features a pulse repair function that can help restore drained and sulfated batteries, extending their

lifespan.

- **Intelligent Digital Display:** Clearly shows charging voltage, charging current, battery charge level, and internal temperature.
- **Switchmode Technology:** Utilizes advanced switchmode technology for efficient power conversion.
- **Wide Compatibility:** Compatible with lithium batteries and most types of lead-acid batteries, including Calcium, GEL, AGM, Wet, and EFB.
- **Silent Fan:** Equipped with a heat dissipation silent fan for effective cooling during operation.



Image 3.1: The FOXSUR charger highlighting its heat dissipation silent fan, designed for efficient cooling.

4. SETUP

Follow these steps to set up your FOXSUR battery charger:

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion.

2. **Connect Clips:** Connect the **red** positive (+) clip of the charger to the positive (+) terminal of the battery. Connect the **black** negative (-) clip of the charger to the negative (-) terminal of the battery.
3. **Connect to Power:** Plug the charger's power cord into a suitable electrical outlet.
4. **Initial Display:** The charger's intelligent digital display will illuminate, showing the current battery voltage and other information.

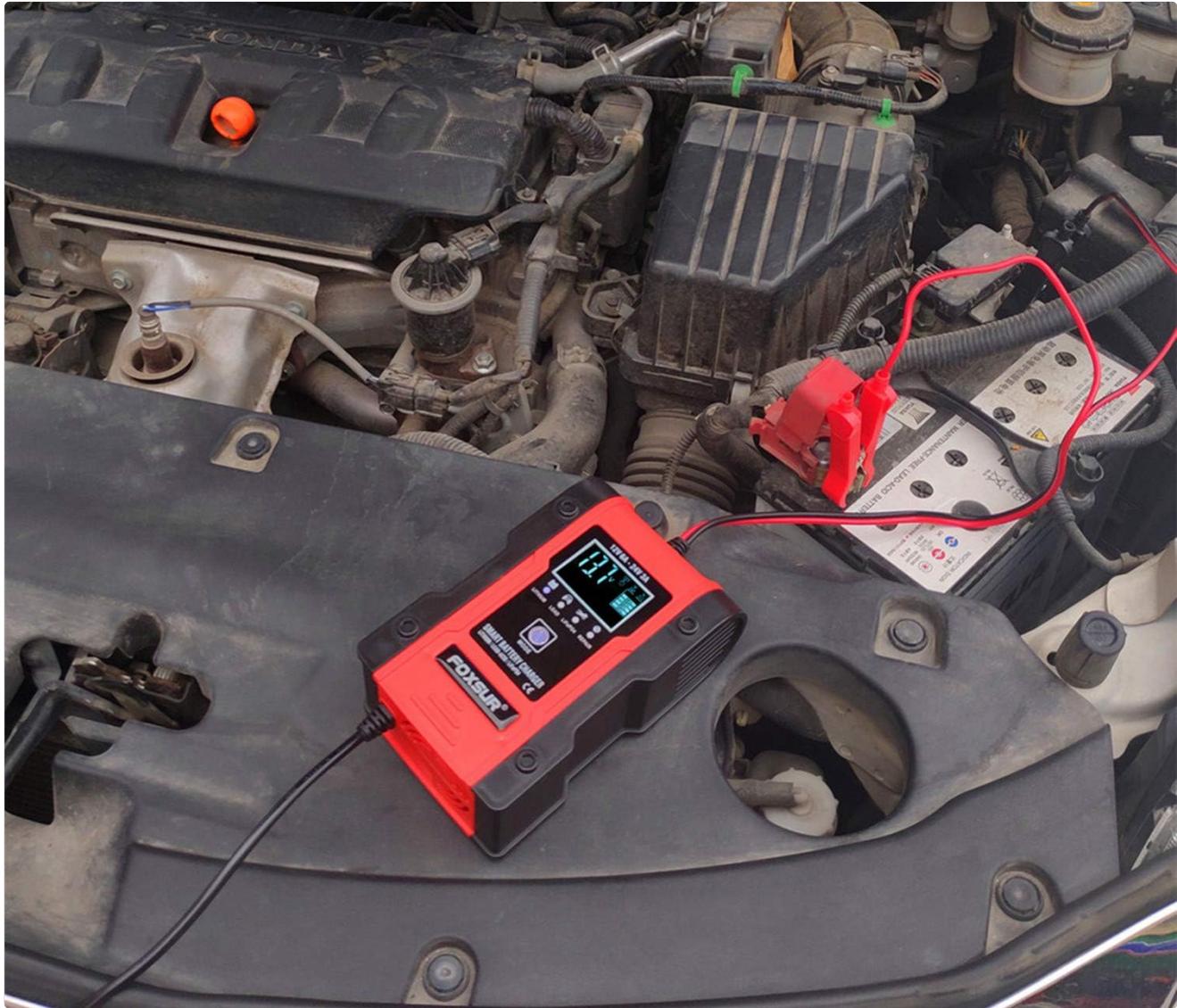


Image 4.1: The FOXSUR charger connected to a car battery, demonstrating proper setup in an engine compartment.

5. OPERATING INSTRUCTIONS

Once connected, the charger will automatically detect the battery type and begin the charging process. You can also manually select modes.

5.1 Mode Selection

Press the 'MODE' button on the charger to cycle through the available charging modes:

- **Lithium:** For lithium batteries.
- **Lead-Acid:** For standard lead-acid batteries (Wet, EFB).
- **GEL/AGM:** For GEL and AGM lead-acid batteries.
- **Repair:** For desulfation and reconditioning of deeply discharged or sulfated lead-acid batteries.

Fully Intelligent Battery Charger

12V/24V 6A lcd

BE TRIGGERED AT
ANY MOMENT



MODE SELECTION



Image 5.1: The FOXSUR charger's display, highlighting the 'MODE' button for selecting charging programs.

5.2 Charging Process

The charger employs a 7-stage automatic charging process:

1. **Desulphation:** Removes sulfates from the battery plates.
2. **Soft Start:** Gradually introduces current to the battery.
3. **Bulk Charge:** Charges the battery to approximately 80% capacity.
4. **Absorption:** Charges the battery to 100% capacity at a decreasing current.
5. **Battery Test:** Checks if the battery can hold a charge.
6. **Recondition:** Applies a higher voltage to recondition deeply discharged batteries (if needed).
7. **Float/Maintenance:** Maintains the battery at full charge without overcharging.



Multi-Function Charging: Lithium Battery, 12V, 24V

Image 5.2: The FOXSUR charger demonstrating its multi-function charging capability for both lithium and 12V motorcycle batteries.

6. MAINTENANCE

To ensure the longevity and optimal performance of your FOXSUR charger:

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a dry cloth for cleaning.
- **Storage:** Store the charger in a cool, dry place when not in use.
- **Cable Inspection:** Regularly inspect the charging cables and clips for any signs of damage or wear.
- **Protective Film:** The screen of the FOXSUR car battery charger is covered with a protective film. Remove this film for a clearer display.

7. TROUBLESHOOTING

If you encounter issues with your charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger not turning on	No power to the outlet; loose connection; internal fault.	Check power outlet; ensure power cord is securely plugged in.
Display shows error/no charge	Incorrect battery connection (reverse polarity); battery severely damaged/dead.	Verify correct positive/negative connections; note that the charger cannot activate a completely dead battery.
Charger gets hot	Normal operation during charging; poor ventilation; excessive load.	Ensure adequate ventilation around the charger; the built-in fan should manage heat. If excessively hot, disconnect and allow to cool.
Battery not fully charging	Battery capacity too large for charger; battery is old/damaged.	Refer to specifications for recommended battery capacities. Consider battery replacement if it's old or damaged.

8. SPECIFICATIONS

Key technical specifications for the FOXSUR 12V/24V 6Amp Intelligent Car Battery Charger:

- **Input Voltage:** 100-240V AC, 50-60Hz
- **Output Voltage:** 12V / 24V DC (Auto-detection)
- **Output Current:** 6 Amp (12V), 3 Amp (24V)
- **Battery Types:** Lithium, Lead-Acid (Calcium, GEL, AGM, Wet, EFB)
- **Charging Stages:** 7-Stage Automatic Charging
- **Recommended Battery Capacity:** 10AH to 120AH (up to 200AH for maintenance)
- **Product Dimensions:** 6.3 x 3.94 x 2.44 inches (16 x 10 x 6.2 cm)
- **Item Weight:** 1.3 pounds (0.59 kg)
- **Color:** Red

RECOMMENDED BATTERY CAPACITIES

10AH TO 120AH, UP TO 200AH FOR MAINTENANCE

BATTERY TYPE(AH)	1
10	2
20	5
40	9
60	13
100	22
120	26



ABOUT 80% STATE OF CHARGE

Image 8.1: A table illustrating recommended battery capacities (AH) for the FOXSUR charger.

9. WARRANTY AND SUPPORT

FOXSUR is committed to providing high-quality products and customer service. While specific warranty details are not provided in this manual, we offer after-sales support for any questions or concerns you may have regarding your product. For assistance, please contact FOXSUR customer service through the retailer's platform where you purchased the product.

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This manual is for informational purposes only. Specifications are subject to change without notice.