

FOXSUR 6V/12V 2Amp Automatic Battery Charger

FOXSUR 6V/12V 2Amp Automatic Battery Charger User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your FOXSUR 6V/12V 2Amp Automatic Battery Charger. This intelligent charger is designed to charge and maintain various types of lead-acid batteries, including Calcium, GEL, AGM, Wet, and EFB batteries. It features microprocessor control for optimal charging and multiple protection mechanisms to ensure safety and prolong battery life.

The charger automatically detects battery voltage (6V or 12V) and provides a 2 Amp charging current. Its integrated LCD display provides real-time information on charging status, voltage, current, and battery condition.

AUTO-VOLTAGE DETECTION



Image 1.1: The FOXSUR charger displaying its auto-voltage detection capability for 6V and 12V batteries, with a 2 Amp output.

2. SAFETY INFORMATION

Read all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Battery Type:** This charger is designed exclusively for lead-acid batteries (Calcium, GEL, AGM, Wet, EFB). **DO NOT charge lithium batteries.**
- **Connection/Disconnection:** Always turn off the power source before connecting or disconnecting the charger to the battery.
- **Ventilation:** Ensure adequate ventilation when charging. Batteries can produce explosive gases.
- **Eye Protection:** Wear appropriate eye protection when working with batteries.
- **Flammable Materials:** Keep the charger and battery away from flammable materials.
- **Water Exposure:** Do not expose the charger to rain or excessive moisture.

- **Damaged Equipment:** Do not operate the charger if it has been dropped, damaged, or is not functioning correctly.
- **Children:** Keep the charger out of reach of children.



Image 2.1: The FOXSUR charger highlighting its built-in safety features, including over-current, over-voltage, reverse polarity, short-circuit, and over-heat protection.

3. SETUP

3.1 Package Contents

Verify that your package contains the following items:

- 1 x FOXSUR Car Battery Charger
- 1 x User Manual (this document)



Image 3.1: The FOXSUR battery charger shown with its retail packaging and included accessories.

3.2 Connecting the Charger

1. Ensure the charger is unplugged from the AC power outlet.
2. Connect the **RED** positive (+) clamp to the positive (+) terminal of the battery.
3. Connect the **BLACK** negative (-) clamp to the negative (-) terminal of the battery.
4. Once the clamps are securely attached, plug the charger's AC power cord into a standard wall outlet (100-240V AC).



Image 3.2: The FOXSUR battery charger showing its power plug and the red and black battery clamps for connection.

4. OPERATING INSTRUCTIONS

4.1 Automatic Charging Process

The FOXSUR charger is fully automatic with a 3-stage charging process. Once connected to a battery and plugged into power, it will automatically detect the battery type (6V or 12V) and begin charging.

- **Stage 1: Desulfation (if needed):** Applies a high-frequency pulse charge to break down lead sulfate crystals that may have built up on discharged batteries.
- **Stage 2: Bulk Charge:** Charges the battery at its maximum rate (2 Amps) until it reaches approximately 80% capacity.
- **Stage 3: Float Charge:** Once the battery is fully charged, the charger switches to a lower voltage to maintain the battery at 100% capacity without overcharging. This allows the charger to be left connected indefinitely.

4.2 LCD Display Information

The backlit LCD display provides real-time feedback:

- **Voltage (V):** Displays the current battery voltage.
- **Current (A):** Shows the charging current in Amperes.
- **Charging Status:** An animated battery icon indicates the charging progress.
- **Battery Full:** Displays 'FUL' when the battery is fully charged.
- **Error (ERO):** Indicates a fault condition (e.g., reverse polarity, short circuit).
- **Repair Mode (PUL):** Indicates the pulse repair function is active.
- **End Repair (End):** Indicates the pulse repair cycle is complete.



Image 4.1: Examples of the FOXSUR charger's LCD display showing charge voltage, charge current, battery full status, error messages, and repair mode indicators.

4.3 Pulse Repair Function

This charger includes a pulse repair function designed to help restore sulfated or slightly discharged batteries and extend their lifespan. The charger will automatically engage this mode if it detects a suitable condition. Note that this function cannot activate completely dead batteries or repair severely damaged batteries to a new condition.

5. MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your battery charger.

- **Cleaning:** Disconnect the charger from power and the battery. Wipe the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasives.
- **Cable and Clamp Inspection:** Regularly inspect the charging cables and clamps for any signs

of damage, fraying, or corrosion. Replace if necessary.

- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Charger does not turn on or display anything.	No AC power; loose connection; faulty outlet.	Check AC power connection. Ensure outlet is functional. Verify charger is properly plugged in.
Display shows 'ERO' (Error).	Reverse polarity; short circuit; battery voltage too low/high; incorrect battery type.	Disconnect and re-connect clamps ensuring correct polarity (+ to +, - to -). Check for short circuits. Ensure battery is a compatible lead-acid type and within the 4Ah-40Ah range.
Charger not charging or charging slowly.	Battery severely discharged/damaged; poor connection; charger fault.	Ensure clamps have good contact. Note that the charger cannot activate completely dead batteries or repair severely damaged ones. If the issue persists, contact support.
Charger feels warm during operation.	Normal operation; poor ventilation.	Some warmth is normal. Ensure the charger has adequate ventilation and is not covered. If it becomes excessively hot, disconnect immediately and contact support.

If the problem persists after attempting these solutions, please contact FOXSUR customer support.

7. SPECIFICATIONS

Feature	Specification
Input Voltage	100-240V AC, 50-60Hz
Rated Output	6V 2A / 12V 2A
Minimum Start Voltage	7.0V
Battery Range	4Ah - 40Ah

Feature	Specification
Thermal Protection	65°C +/- 5°C
Cooling	Natural Cooling
Battery Types	Most types of lead-acid batteries including Calcium, GEL, AGM, Wet, EFB, etc.
Product Dimensions	5.12 x 2.95 x 1.97 inches (13 x 7.5 x 5 cm)
Item Weight	9.9 ounces (0.28 kg)

8. WARRANTY AND SUPPORT


8.1 Warranty Information






For detailed warranty information regarding your FOXSUR 6V/12V 2Amp Automatic Battery Charger, please refer to the product packaging or the official FOXSUR website. Warranty terms and conditions may vary by region and retailer.

8.2 Customer Support

If you have any questions, require technical assistance, or need to report an issue with your product, please contact FOXSUR customer service through their official website or the contact information provided with your purchase.

Related Documents - 6V/12V 2Amp Automatic Battery Charger

<div><p>PORTABLE BATTERY CHARGER</p><p>12V/18A/24V/5A FPT-100 12V/20A/24V/10A FPT-200</p><p>7-Stage Automatic Smart Battery Charger For Lead Acid, LiFePO4 (12V, 24V, 5A, 10A, 20A, 30A, 40A, 50A, 60A, 80A, 100A)</p><p>USER MANUAL THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS</p><p>English 1</p></div>	<p>Foxsur Portable Battery Charger User Manual - FPT-100/FPT-200</p> <p>User manual for the Foxsur FPT-100 and FPT-200 portable automatic smart battery chargers. Covers safety instructions, main features, charger modes, charging process, and technical specifications for 12V and 24V Lead-Acid and LiFePO4 batteries.</p>
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<p>3-СТУПЕНЧАТО АВТОМАТИЧНО ИНТЕЛИГЕНТНО ЗАРЯДНО УСТРОЙСТВО С ЖК-ДИСПЛЕЕМ</p> <p>12В/5А ИНТЕЛИГЕНТНОЕ ЗАРЯДНОЕ УСТРОЙСТВО С ЖК-ДИСПЛЕЕМ</p>  <p>РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ</p> <p>Данное руководство содержит важные инструкции по технике безопасности и эксплуатации.</p> <p>https://needful.co.uk/</p>	<p>Руководство пользователя зарядного устройства FOXSUR FBC1205D 12V 5A</p> <p>Подробное руководство пользователя для зарядного устройства FOXSUR FBC1205D 12V 5A. Ознакомьтесь с инструкциями по безопасной эксплуатации, различными режимами зарядки (включая импульсный ремонт) и техническими характеристиками для аккумуляторов AGM, GEL, SLA и VRLA.</p>
<p>12V/7A</p> <p>7-Stage Automatic Smart Battery Charger For Motorcycle, Car, ATV, Etc.</p> <p>(AGM, GEL, SLA, VRLA, TYPICAL BATTERIES)</p> <p>FBC1207D</p>  <p>USER MANUAL</p> <p>THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS</p> <p>English</p>	<p>Focsur FBC1207D 12V 7A Smart Battery Charger User Manual</p> <p>Comprehensive user manual for the Focsur FBC1207D, a 7-stage automatic smart battery charger designed for motorcycles, cars, ATVs, and other vehicles. Learn about its features, modes, safety precautions, and technical specifications.</p>
<p>FOXSUR®</p> <p>3-Stage Automatic Smart Battery Charger With LCD Display</p> <p>FBC122408D</p> <p>12V/8A/24V/4A Multifunction Charger (FOR CHARGE AGM, GEL, SLA AND VRLA BATTERIES)</p>  <p>USER MANUAL</p> <p>THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS</p> <p>1</p>	<p>Focsur FBC122408D 3-Stage Automatic Smart Battery Charger User Manual</p> <p>Comprehensive user manual for the Focsur FBC122408D, a 3-stage automatic smart battery charger with LCD display. Learn about its features, safety instructions, charging modes, and technical specifications for 12V and 24V lead-acid batteries.</p>
<p>MULTI-FUNCTION CHARGER</p> <p>12V/12A/24V/6A</p> <p>7-Stage Automatic Smart Battery Charger For Lead-Acid, LiFePO4, AGM, GEL, VRLA, SLA, ETC.</p> <p>FBC122412D</p>  <p>USER MANUAL</p> <p>THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS</p> <p>English 1</p>	<p>Focsur FBC122412D Multi-Function Battery Charger User Manual</p> <p>User manual for the Focsur FBC122412D, a 7-stage automatic smart battery charger for 12V and 24V lead-acid and LiFePO4 batteries. Includes safety instructions, features, charging modes, and technical specifications.</p>
<p>ИНСТРУКЦИЯ ЗА ПОТРЕБИТЕЛЯ НА ИНТЕЛИГЕНТНО ЗАРЯДНО УСТРОЙСТВО</p>  <p>12V/24V/8A/4A</p> <p>3-Stage Automatic Smart Battery Charger With LCD Display</p> <p>FBC122408D</p> <p>РУКОВОДСТВО ЗА ПОТРЕБИТЕЛЯ</p> <p>Данното ръководство съдържа важни инструкции по безопасност и експлоатация.</p> <p>1</p>	<p>Ръководство за потребителя на зарядно устройство FOXSUR FBC122408D</p> <p>Подробно ръководство за потребителя за интелигентното зарядно устройство FOXSUR FBC122408D 12V/24V, обхващащо функции, безопасност, инструкции за зареждане, технически спецификации и гаранция.</p>