

## FERVE F-909

# FERVE F-909 Automatic Lead Acid Battery Charger

User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your FERVE F-909 Automatic Lead Acid Battery Charger. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage or injury.

The FERVE F-909 is designed for charging all types of lead-acid batteries, offering automatic charging functionality with selectable output voltages of 12V and 24V, and selectable charging currents between 4 and 8 amps.

## 2. PRODUCT OVERVIEW

The FERVE F-909 is a robust and versatile automatic charger suitable for lead-acid batteries with capacities ranging from 24 to 95 Ah. It features a practical digital indicator via LEDs for easy monitoring of the charging process. Its durable metal casing ensures longevity and protection.

### Key Features:

- Automatic charger for 12V and 24V systems.
- Selectable charging currents: 4A and 8A.
- Compatible with lead-acid batteries from 24 Ah to 95 Ah.
- Equipped with a digital LED indicator for status display.
- Constructed with a robust metal casing for durability.



Image: The FERVE F-909 Automatic Lead Acid Battery Charger, showing its red and white casing, front panel with display and buttons, and attached battery clamps (red and black).

## 3. SETUP

1. **Unpacking:** Carefully remove the charger from its packaging. Inspect for any signs of damage during transit. If damaged, do not use and contact your supplier.
2. **Placement:** Place the charger on a stable, dry, and well-ventilated surface. Ensure it is away from direct sunlight,

heat sources, and flammable materials.

3. **Battery Preparation:** Ensure the battery to be charged is clean and its terminals are free of corrosion. If charging a wet lead-acid battery, check the electrolyte levels and top up with distilled water if necessary, ensuring proper ventilation during charging.
4. **Connecting to Battery:**
  - Connect the **red (+)** clamp of the charger to the **positive (+)** terminal of the battery.
  - Connect the **black (-)** clamp of the charger to the **negative (-)** terminal of the battery.
  - Ensure a secure connection to prevent sparks or poor contact.
5. **Power Connection:** Once the battery clamps are securely connected, plug the charger's power cord into a suitable mains power outlet (230V AC, 50/60Hz).

## 4. OPERATING INSTRUCTIONS

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1. **Power On:** After connecting the battery and plugging in the charger, the unit will power on. The LED indicators will illuminate, showing the current settings and battery status.
2. **Select Voltage (12V/24V):** Use the voltage selection button (often labeled "V" or with voltage symbols) to choose the appropriate voltage for your battery (12V or 24V). The corresponding LED will light up.
3. **Select Charging Current (4A/8A):** Use the current selection button (often labeled "A" or with current symbols) to select the desired charging current (4A or 8A). For smaller batteries or slower charging, select 4A. For larger batteries or faster charging, select 8A. The corresponding LED will light up.
4. **Monitor Charging:** The digital LED indicator will display the charging progress. Common indicators include:
  - *Charging in progress:* LEDs indicating current flow.
  - *Fully charged:* A specific LED (e.g., "FULL" or "OK") will illuminate, and the charger may switch to a maintenance/float charge mode.
  - *Error/Fault:* If an error occurs (e.g., reverse polarity, faulty battery), an error LED may light up. Disconnect immediately and troubleshoot.
5. **Disconnecting:** Once charging is complete and the battery is fully charged:
  - Unplug the charger from the mains power outlet first.
  - Then, disconnect the black (-) clamp from the battery's negative terminal.
  - Finally, disconnect the red (+) clamp from the battery's positive terminal.

## 5. MAINTENANCE

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- **Cleaning:** Regularly clean the charger's casing with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the ventilation openings are free from dust and debris.
- **Cable and Clamp Inspection:** Periodically inspect the power cord, charging cables, and battery clamps for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it out of reach of children.
- **No User Serviceable Parts:** The FERVE F-909 contains no user-serviceable parts. Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Charger does not power on.	No mains power; faulty power cord; internal fault.	Check power outlet and cord. Ensure secure connection. If problem persists, seek professional service.
Battery not charging.	Incorrect voltage/current selection; poor clamp connection; deeply discharged battery; faulty battery.	Verify voltage and current settings match battery. Ensure clamps are securely connected. Check battery condition.
Error LED illuminates.	Reverse polarity connection; short circuit; internal fault.	Immediately disconnect. Check clamp polarity. Inspect cables for damage. If error persists, battery or charger may be faulty.
Charger gets hot during operation.	Normal operation; poor ventilation; excessive load.	Some heat is normal. Ensure adequate ventilation around the charger. Do not cover vents. If excessively hot, disconnect and allow to cool.

## 7. SPECIFICATIONS

Attribute	Detail
Brand	FERVE
Model Number	F-909
Manufacturer	FERVE, S.A.
Product Dimensions	23.5 x 19.5 x 14 cm
Item Weight	5.14 kg
Output Voltage	12 Volts, 24 Volts (selectable)
Current Rating	4 Amps, 8 Amps (selectable)
Compatible Battery Capacity	24 Ah to 95 Ah (Lead Acid Batteries)
Color	Multicolored (Red/White)
First Available Date	22 May 2015
Global Trade Identification Number (GTIN)	08412473109098

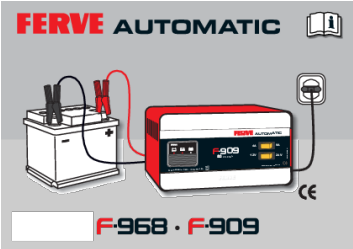
## 8. WARRANTY AND SUPPORT

Specific warranty terms and conditions for the FERVE F-909 charger are provided by the manufacturer or your point of purchase. Please refer to the documentation included with your product or contact the retailer for detailed warranty information.

For technical support, service, or inquiries regarding your FERVE product, please contact FERVE, S.A. directly or consult

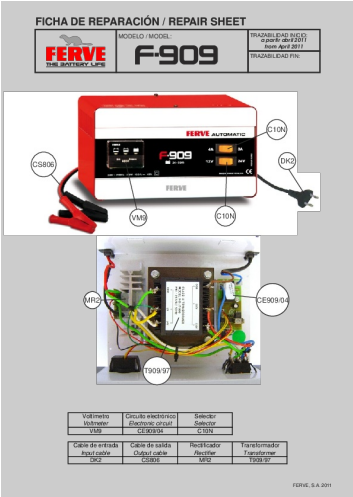
their official website for contact details and authorized service centers.

Documents - FERVE – F-909



[pdf] Declaration of Conformity

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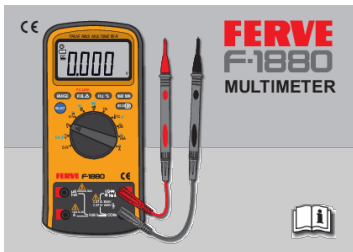
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