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FERVE F-2908

FERVE F-2908 Lead-Acid Battery Charger

Instruction Manual

1. INTRODUCTION

Thank you for choosing the FERVE F-2908 Lead-Acid Battery Charger. This device is designed for charging and maintaining 12V and 24V lead-acid batteries with capacities between 24 Ah and 95 Ah. Please read this manual carefully before use to ensure safe and efficient operation.



Image 1: Front view of the FERVE F-2908 Lead-Acid Battery Charger with attached battery clamps.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the charger or battery:

- **Read the entire manual:** Before operating the charger, read and understand all instructions.
- **Ventilation:** Ensure adequate ventilation when charging batteries. Batteries can produce explosive gases.
- **Eye and Skin Protection:** Wear appropriate eye protection and protective clothing when working with batteries.
- **Avoid Sparks:** Do not smoke or allow sparks or flames in the vicinity of the battery or charger.
- **Correct Voltage:** Ensure the charger's output voltage matches the battery's voltage (12V or 24V).
- **Connection Order:** Connect the output clamps to the battery terminals before plugging the charger into the mains power. Disconnect in reverse order.
- **Damaged Batteries:** Do not attempt to charge frozen or visibly damaged batteries.
- **Indoor Use:** This charger is designed for indoor use only. Do not expose to rain or moisture.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.

3. PRODUCT FEATURES

- **Versatile Charging:** Supports 12V and 24V lead-acid batteries.
- **Capacity Range:** Suitable for batteries with capacities between 24 Ah and 95 Ah.
- **Selectable Current:** Offers 4A and 8A charging current options.
- **Digital Voltmeter:** Integrated digital voltmeter with 0.1V resolution for charge status indication.
- **Robust Construction:** Features a durable metal housing.
- **Battery Type Compatibility:** Compatible with WET, GEL, AGM, and Start/Stop batteries.



Image 2: The FERVE F-2908 charger indicating compatibility with WET, GEL, AGM, and Start/Stop battery types.

4. SETUP

1. **Placement:** Place the charger on a stable, dry, and well-ventilated surface.
2. **Battery Preparation:** If charging a liquid (WET) battery, check the electrolyte level and top up with distilled water if necessary. Ensure battery terminals are clean.

3. **Connect Positive Clamp:** Connect the red (+) charger clamp to the positive (+) terminal of the battery.
4. **Connect Negative Clamp:** Connect the black (-) charger clamp to the negative (-) terminal of the battery.
5. **Power Connection:** Plug the charger's power cord into a suitable 230V AC mains outlet.



Image 3: A user connecting the FERVE F-2908 charger to a car battery under the hood of a vehicle.

5. OPERATING INSTRUCTIONS

After connecting the charger to the battery and mains power:

1. **Select Voltage:** Use the **12V/24V** switch on the front panel to select the correct voltage for your battery. The digital display will show the current battery voltage.
2. **Select Current:** Use the **4A/8A** switch to select the desired charging current. For smaller batteries or slower charging, select 4A. For larger batteries or faster charging, select 8A.
3. **Select Mode (Automatic/Manual):** The charger offers both automatic and manual charging modes.
 - **Automatic Mode:** Recommended for most charging scenarios. The charger will automatically detect the battery type (GEL/LIQ) and adjust the charging process. It will stop charging when the battery is full and switch to

maintenance mode.

- **Manual Mode:** Use with caution and only when necessary, for example, with deeply discharged batteries that automatic mode cannot detect. Monitor the charging process closely in manual mode to prevent overcharging.
4. **Start Charging:** Once settings are selected, the charger will begin the charging process. The digital display will show the charging voltage.
 5. **Monitoring:** Periodically check the digital voltmeter to monitor the battery's voltage during charging.
 6. **Completion:** In automatic mode, the charger will indicate when charging is complete and switch to a maintenance charge.
 7. **Disconnection:** To disconnect, first unplug the charger from the mains power, then disconnect the black (-) clamp, followed by the red (+) clamp from the battery.



Image 4: The FERVE F-2908 charger connected to a car battery, illustrating its charging and maintenance capabilities, including automatic and manual modes.

6. MAINTENANCE

- **Cleaning:** Disconnect the charger from power before cleaning. Wipe the exterior with a soft, dry cloth. Do not use

solvents or abrasive cleaners.

- **Cable Inspection:** Regularly inspect the power cord and charging cables for any signs of damage. Do not use if cables are frayed or damaged.
- **Storage:** Store the charger in a cool, dry place when not in use, away from direct sunlight and moisture.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on.	No power from mains outlet; faulty power cord; charger internal fault.	Check mains outlet with another appliance. Inspect power cord for damage. If problem persists, contact support.
Charger not charging battery.	Incorrect voltage selected; poor connection to battery terminals; deeply discharged battery; faulty battery.	Ensure correct 12V/24V setting. Clean and secure battery clamp connections. Try manual mode for deeply discharged batteries (with caution). Test battery condition.
Charger gets hot during operation.	Normal operation; insufficient ventilation; overcurrent.	Some heat is normal. Ensure charger is in a well-ventilated area. If excessively hot, disconnect and contact support.

8. SPECIFICATIONS

Feature	Detail
Brand	FERVE
Model	F-2908
Input Voltage	230V AC, 50/60Hz
Output Voltage	12V DC / 24V DC
Charging Current	4A / 8A
Battery Capacity	24 Ah - 95 Ah
Compatible Battery Types	Lead-acid (WET, GEL, AGM, Start/Stop)
Dimensions (L x W x H)	19.5D x 23.5W x 14H cm (approx.)
Item Weight	4.9 Kilograms
Compliance	CE
GTIN	08412473129089

9. WARRANTY AND SUPPORT

The FERVE F-2908 Lead-Acid Battery Charger comes with a **3-year warranty** from the date of purchase. This warranty

covers manufacturing defects and material faults under normal use.

For technical support, warranty claims, or further assistance, please contact your retailer or the FERVE customer service department. Please have your proof of purchase and product model number (F-2908) ready when contacting support.