

FERVE F-2512

Ferve F-2512 Lead-Acid and Lithium Battery Charger User Manual

Model: F-2512 | Brand: FERVE

1. INTRODUCTION

The FERVE F-2512 is an advanced automatic battery charger designed for a wide range of 12V lead-acid and lithium batteries. It offers versatile charging functions, including 3A, 8-12A for lead-acid batteries (liquid, gel, AGM, Start-Stop), 9A for Li-Po lithium batteries, and 12A for LiFePO4 lithium batteries. This charger is engineered for high efficiency and durability, making it suitable for both workshop and home use. Its ripple-free design ensures optimal battery health, and the included OBDII connector allows for voltage maintenance during battery changes, preventing data loss in vehicles.



Figure 1: The Ferve F-2512 battery charger, a red and black device with a control panel and connected cables.

2. SAFETY INSTRUCTIONS

Read all instructions carefully before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the charger is connected to a grounded outlet. Do not expose the charger to rain or wet conditions. Disconnect power before making or breaking connections to the battery.
- **Ventilation:** Although the F-2512 does not require forced ventilation, ensure adequate airflow around the unit during operation to prevent overheating.
- **Battery Types:** Use this charger only for 12V lead-acid (liquid, gel, AGM, Start-Stop) and lithium (Li-Po, LiFePO4) batteries.

Do not attempt to charge non-rechargeable batteries.

- **Explosive Gases:** Batteries can generate explosive gases during charging. Ensure the charging area is well-ventilated and avoid open flames or sparks near the battery.
- **Personal Protection:** Wear eye protection and gloves when working with batteries. Avoid touching eyes while working near batteries.
- **Children and Pets:** Keep the charger and batteries out of reach of children and pets.

3. PRODUCT FEATURES

- Automatic and ripple-free charger for all types of 12V lead-acid and lithium batteries.
- No forced ventilation required, enhancing efficiency and durability.
- Ideal for extensive use in workshops or at home.
- Includes an OBDII connector to maintain vehicle voltage and prevent data loss during battery changes.
- Multiple charging functions: 3A, 8-12A for lead-acid; 9A for Li-Po; 12A for LiFePO4.

4. SETUP

1. **Prepare the Battery:** Ensure the battery terminals are clean and free of corrosion. If charging a lead-acid battery with removable caps, check electrolyte levels and top up with distilled water if necessary.
2. **Connect to Battery:** Connect the red (+) charger clamp to the positive (+) battery terminal. Connect the black (-) charger clamp to the negative (-) battery terminal. Ensure a secure connection.
3. **Connect to Power:** Plug the charger's AC power cord into a standard 220V AC electrical outlet. The charger will perform a self-test.
4. **Using the OBDII Connector (Optional):** If changing a vehicle battery and wishing to preserve vehicle settings, connect the OBDII connector to the vehicle's OBDII port before disconnecting the old battery. This will supply auxiliary power to maintain vehicle memory.

5. OPERATING INSTRUCTIONS

The F-2512 charger features an automatic charging process. Once connected, it will typically detect the battery type and condition. However, you may need to select a specific charging mode.

- **Mode Selection:** Press the "MODE" button on the charger's control panel to cycle through available charging programs. The indicator lights will show the selected mode (e.g., Lead-Acid 3A, Lead-Acid 8-12A, Li-Po 9A, LiFePO4 12A). Select the mode appropriate for your battery type and desired charging current.
- **Charging Process:** Once a mode is selected, the charger will begin the charging process. Indicator lights will typically show charging progress (e.g., charging, fully charged, error).
- **Completion:** The charger will automatically switch to maintenance mode or stop charging once the battery is fully charged, preventing overcharging.
- **Disconnecting:** First, unplug the charger from the AC power outlet. Then, disconnect the black (-) clamp from the battery, followed by the red (+) clamp.

6. MAINTENANCE

- **Cleaning:** Keep the charger clean and dry. Wipe the casing with a soft, damp cloth. Do not use harsh chemicals or abrasives.
- **Cable Inspection:** Regularly inspect the charging cables and clamps for any signs of damage, fraying, or corrosion. Replace if damaged.

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

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on.	No power from outlet; faulty connection; internal fault.	Check power outlet with another device. Ensure AC cord is fully plugged in. Re-check battery connections. If problem persists, contact support.
Charger not charging battery.	Incorrect mode selected; battery deeply discharged or faulty; poor connection.	Verify correct charging mode for battery type. Ensure clamps are securely connected. Battery may be too low to accept charge (try a different charger if available to bring it to a minimum voltage). Battery may be damaged.
Error indicator light is on.	Reverse polarity connection; short circuit; battery fault.	Disconnect charger immediately. Check battery connections for correct polarity (+ to +, - to -). Inspect cables for damage. If battery is faulty, it may need replacement.

8. SPECIFICATIONS

Brand: FERVE

Model: F-2512

Input Voltage: 220 Volts

Output Voltage: 12 Volts

Output Current: 3A, 8-12A (Lead-Acid); 9A (Li-Po); 12A (LiFePO4)

Product Dimensions: 23 x 13.5 x 6.3 cm

Product Weight: 1.42 kg

Manufacturer: FERVE, S.A.

ASIN: B01GTO24AE

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official FERVE website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: FERVE, S.A.

Model: F-2512



FERVE
2023

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F-2512 3,8-12A 12V LIQ GEL AGM 9A 12V Li-PO 12A 12V LiFePO4 AUTOMATIC RF 200-240 V FROM 3V AUTOMATIC AGM GEL LIQ LITHIUM LiPO LiFePO4 START STOP MICROPROCESSOR OK MEMORY AND VOLTAGE PROTECTION **F-2512** 200-240 V - 50/60 Hz 200 W automatic 12 V 12 360 Ah 230 x 130 x 63 mm ...

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