

FERVE F812

Ferve F812 Battery Charger User Manual

Model: F812

1. INTRODUCTION

Thank you for choosing the Ferve F812 Battery Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device. Please read this manual thoroughly before using the charger and keep it for future reference.

The Ferve F812 is designed to charge 12V and 24V lead-acid batteries with capacities ranging from 35 Ah to 140 Ah, offering selectable charging currents of 6A and 12A.

2. SAFETY INSTRUCTIONS

WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Electrical Safety:** Ensure the charger is connected to a grounded outlet. Do not expose the charger to rain or wet conditions. Never operate the charger if the power cord or clamps are damaged.
- **Explosive Gases:** Batteries generate explosive gases during normal operation. Ensure adequate ventilation when charging. Avoid sparks, flames, and smoking near the battery.
- **Eye and Skin Protection:** Always wear eye protection and protective clothing when working with batteries. Battery acid is corrosive.
- **Children and Pets:** Keep the charger and battery out of reach of children and pets.
- **Proper Connection:** Connect the battery charger output clamps to the battery terminals in the correct polarity (red to positive, black to negative). Ensure a secure connection.
- **Disconnecting:** Always disconnect the AC power from the charger before disconnecting the battery clamps.
- **Intended Use:** This charger is designed for charging lead-acid batteries only. Do not use it for charging dry-cell batteries that may burst and cause injury to persons and damage to property.

3. PRODUCT OVERVIEW

The Ferve F812 battery charger features a robust design for reliable performance. Familiarize yourself with the

components shown below:



Figure 1: Front view of the Ferve F812 Battery Charger. It shows a red and white casing, a digital display indicating "12.5", switches for voltage (12V/24V) and current (6A/12A) selection, a red 'TEST' button, an 'AUTO-FUSE' indicator, and attached red and black battery clamps.

Key Components:

- **Digital Display:** Shows real-time voltage or other charging parameters.
- **Voltage Selector (12V/24V):** Switch to select the appropriate voltage for the battery being charged.
- **Current Selector (6A/12A):** Switch to select the desired charging current.
- **TEST Button:** Used to check battery status or charger function.
- **AUTO-FUSE Indicator:** Indicates the status of the internal fuse protection.
- **Battery Clamps:** Red for positive (+), Black for negative (-).
- **Power Cord:** For connecting to the main power supply (230V~50/60Hz).

4. SETUP

1. **Ventilation:** Ensure the charging area is well-ventilated to disperse explosive gases.
2. **Battery Preparation:** Clean battery terminals of any corrosion. If the battery has removable caps, check electrolyte levels and top up with distilled water if necessary.
3. **Charger Placement:** Place the charger on a stable, dry surface, away from direct sunlight, heat sources, and moisture.
4. **Connect to Battery:**
 - Connect the **RED (+)** clamp to the positive (+) terminal of the battery.
 - Connect the **BLACK (-)** clamp to the negative (-) terminal of the battery.
 - Ensure connections are firm and secure.

- 5. **Select Voltage:** Use the voltage selector switch on the charger to match the battery voltage (12V or 24V).
- 6. **Select Current:** Use the current selector switch to choose the desired charging current (6A or 12A). Refer to your battery's specifications for recommended charging rates.

5. OPERATING INSTRUCTIONS

- 1. **Connect to Power:** After connecting the clamps to the battery and selecting voltage/current, plug the charger's power cord into a 230V AC grounded electrical outlet.
- 2. **Monitor Charging:** The digital display will show the charging voltage. The charger will automatically begin charging. Monitor the display and the battery's condition.
- 3. **Charging Completion:** The charger will typically reduce current as the battery approaches full charge. Refer to the battery manufacturer's guidelines for full charge indications.
- 4. **Disconnecting:**
 - First, unplug the charger from the AC power outlet.
 - Then, disconnect the BLACK (-) clamp from the battery's negative terminal.
 - Finally, disconnect the RED (+) clamp from the battery's positive terminal.
- 5. **TEST Function:** Press the 'TEST' button to check the battery's voltage or other diagnostic information as indicated by the charger's display.

6. MAINTENANCE

- **Cleaning:** Disconnect the charger from all power sources and batteries before cleaning. Wipe the exterior with a soft, damp cloth. Do not use solvents or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.
- **Cable Inspection:** Regularly inspect the power cord and battery clamps for any signs of damage, cracks, or fraying. Do not use if damaged.
- **Fuse Replacement:** The 'AUTO-FUSE' indicator will alert you if the internal fuse needs attention. Consult a qualified technician for fuse replacement if necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger does not turn on.	No power from outlet; loose connection; internal fuse blown.	Check power outlet and connections. If 'AUTO-FUSE' is active, consult service.
Battery not charging.	Incorrect voltage/current selection; poor clamp connection; deeply discharged battery.	Verify voltage/current settings. Ensure clamps are securely connected. Some deeply discharged batteries may not accept a charge.
Charger gets hot.	Normal operation; poor ventilation; excessive load.	Some heat is normal. Ensure adequate ventilation. If excessively hot, disconnect and allow to cool.

Problem	Possible Cause	Solution
Digital display shows error.	Refer to specific error codes in a more detailed manual (if available).	Disconnect and reconnect. If error persists, contact customer support.

8. SPECIFICATIONS

- **Model:** F812
- **Brand:** FERVE
- **Input Voltage:** 230V AC, 50/60Hz
- **Power Consumption:** 315W
- **Output Voltage:** 12V / 24V DC
- **Charging Current:** 6A / 12A
- **Battery Capacity:** 35 Ah - 140 Ah
- **Certifications:** ISO 9001:2081, CE
- **Manufacturer:** Ferve (Made in Spain)

9. WARRANTY AND SUPPORT


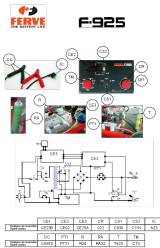
FERVE products are manufactured to high European standards and undergo rigorous quality control. For warranty information, technical assistance, or service, please contact your local FERVE dealer or visit the official FERVE website. Please retain your proof of purchase for warranty claims.





Note: Information regarding spare parts availability and software updates is not available at this time.

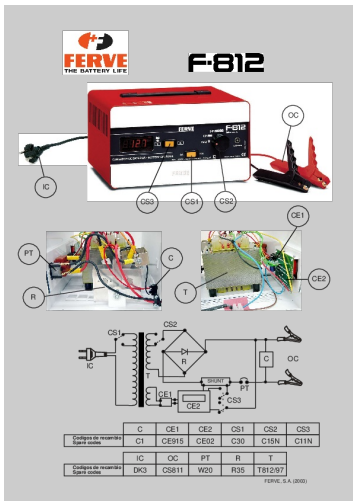


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Related Documents - F812

	<p>Ferve Prima Battery Chargers F-806 and F-807 User Manual</p> <p>Comprehensive user and safety manual for Ferve Prima battery chargers, models F-806 and F-807. Includes operating instructions, technical specifications, and warranty information.</p>
	<p>Ferve F-925 Battery Charger - Technical Overview and Spare Parts</p> <p>Detailed technical overview of the Ferve F-925 battery charger, including its features, control panel, internal schematic description, and a comprehensive spare parts list. Manufactured by Ferve, S.A.</p>

 <p>FERVE PRIMA F705 • F903 • F905 • F805</p>	<p>Ferve Prima Battery Chargers: Operating Instructions and Safety Manual</p> <p>Comprehensive guide to Ferve Prima battery chargers, including models F-705, F-903, F-905, and F-805. Covers operating instructions, safety precautions, and warranty information for charging various types of batteries.</p>
 <p>FERVE F-2507 CARGADOR AUTOMÁTICO DE BATERÍAS AUTOMATIC BATTERY CHARGER 12 V • 4 - 8 A 24 V • 4 A</p>	<p>FERVE F-2507 Automatic Battery Charger User Manual</p> <p>User manual for the FERVE F-2507 Automatic Battery Charger, detailing its features, operation, and troubleshooting for 12V and 24V batteries.</p>
 <p>FERVE DUAL CARGADOR MANUAL / AUTOMÁTICO DE BATERÍAS MANUAL / AUTOMATIC BATTERY CHARGER 12 / 24 V 10 - 20 A F-2320</p>	<p>FERVE DUAL F-2320 Manual / Automatic Battery Charger</p> <p>User manual and operating instructions for the FERVE DUAL F-2320 manual/automatic battery charger. Covers safety precautions, battery testing, alternator testing, charging process, and warranty information.</p>
 <p>FERVE AUTOMATIC F968 • F909</p>	<p>FERVE F-968 & F-909 Automatic Battery Chargers: User Guide and Specifications</p> <p>Detailed user guide for FERVE F-968 and F-909 automatic battery chargers. Covers operation, safety, technical specs, and warranty for 6V, 12V, and 24V batteries.</p>

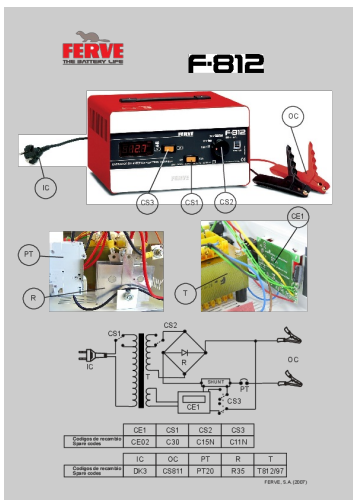


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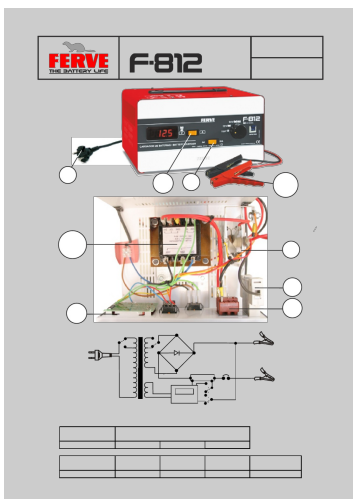


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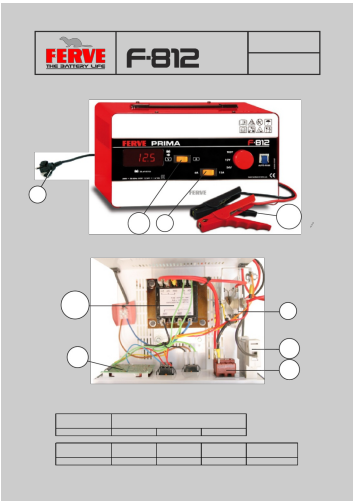
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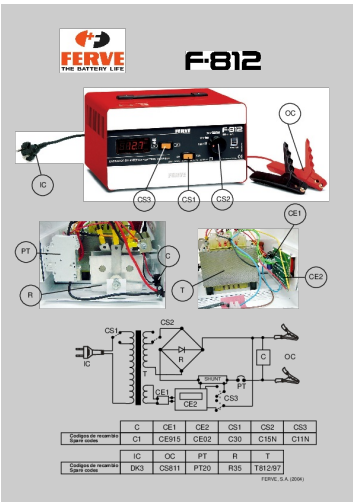


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