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## FERVE F-515

# FERVE F-515 Supercapacitor Starter

## Instruction Manual

Model: F-515 | Brand: FERVE

## 1. PRODUCT OVERVIEW

The FERVE F-515 is an advanced supercapacitor jump starter designed for reliable vehicle starting. Unlike traditional battery boosters, it utilizes supercapacitor technology, eliminating the need for an internal battery and making it maintenance-free. It charges rapidly from your vehicle's existing battery, even if the battery is discharged, allowing for quick and efficient jump-starts.



Image: Front view of the FERVE F-515 Supercapacitor Starter, showing the display and connection clamps.

Key features include:

- Supercapacitor Technology:** No internal battery, ensuring long lifespan and readiness.
- Rapid Recharge:** Charges in minutes directly from the vehicle's battery.
- Maintenance-Free:** Requires no periodic charging or special storage conditions.
- Robust Protection:** Features protection against polarity inversion, overvoltage, and overloads.

- **High Performance:** Delivers 300A continuous discharge and 500A peak discharge (1100A peak for 3 seconds).
- **Microprocessor Controlled:** Ensures optimal and safe operation.

## 2. SETUP AND INITIAL USE

The F-515 is designed for immediate use. Before connecting, ensure the vehicle's ignition is off and all accessories are turned off.

### Connecting the Starter

1. **Identify Battery Terminals:** Locate the positive (+) and negative (-) terminals on your vehicle's 12V battery. The positive terminal is usually marked with a plus sign and is larger, while the negative terminal is marked with a minus sign.
2. **Connect Red Clamp:** Attach the red positive (+) clamp of the F-515 to the positive (+) terminal of the vehicle's battery. Ensure a secure connection.
3. **Connect Black Clamp:** Attach the black negative (-) clamp of the F-515 to the negative (-) terminal of the vehicle's battery. Alternatively, you can connect it to a clean, unpainted metal part of the engine block or chassis, away from moving parts.
4. **Device Activation:** Once connected, the F-515 will automatically begin to charge from the vehicle's battery. The display will show the charging progress.



Image: Illustrated guide showing the connection of the F-515 to a vehicle battery and the charging process.

## 3. OPERATING INSTRUCTIONS

### Charging the F-515

The F-515 charges itself using the residual power from the vehicle's battery, even if it's deeply discharged. This process typically takes only a few minutes.

- Connect the F-515 to the vehicle battery as described in the "Setup" section.
- The device will display the charging status. Wait until the display indicates a full charge (e.g., 100% or "READY").
- If the vehicle battery is extremely low, the F-515 may take slightly longer to charge, but it will still draw enough power to become ready for a jump start.

## Jump Starting the Vehicle

1. **Ensure Full Charge:** Confirm the F-515 is fully charged and ready, as indicated on its display.
2. **Press "MODE" Button:** Press the "MODE" button on the F-515 to select the appropriate jump start mode (e.g., "JUMP START"). The device may emit a sound signal (e.g., "BEEEP! BEEEP!").
3. **Start Vehicle:** Attempt to start the vehicle by turning the ignition key. The F-515 will deliver the necessary power.
4. **Disconnect:** Once the vehicle starts, immediately disconnect the black negative (-) clamp, followed by the red positive (+) clamp.
5. **Store Device:** Store the F-515 in a cool, dry place.

The F-515 is equipped with sound and LED indicators to guide you through the process and alert you to any issues.

## 4. MAINTENANCE AND CARE

One of the primary advantages of the FERVE F-515 is its maintenance-free design. Due to its supercapacitor technology, it does not contain an internal battery that requires periodic charging or replacement.



Image: Symbol indicating "No internal battery" and "No maintenance".

### General Care

- **Cleaning:** Wipe the device with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the F-515 in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect the clamps and cables for any signs of damage, fraying, or corrosion. Replace if necessary.
- **Water Resistance:** The device has an IP65 protection level, meaning it is protected against dust ingress and low-pressure water jets. However, it is not designed for submersion.

## 5. TROUBLESHOOTING

The FERVE F-515 is designed with built-in protections to ensure safe and reliable operation. If you encounter issues, refer to the following:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not charge or turn on.	Poor connection to vehicle battery; vehicle battery completely dead (no residual power).	Ensure clamps are securely attached to clean battery terminals. If vehicle battery is completely dead, the F-515 may not be able to draw enough power to charge itself. In such rare cases, a minimal charge from another 12V source might be needed to initiate the process.
Vehicle does not start after jump attempt.	F-515 not fully charged; vehicle issue unrelated to battery; poor connection.	Ensure the F-515 display indicates "READY" or 100% charge. Check all connections for security. If the vehicle still doesn't start, there might be other mechanical or electrical issues with the vehicle.
Device beeps or shows error.	Polarity inversion; overvoltage; overload.	The F-515 has built-in protection. Disconnect the device, check connections for correct polarity (red to +, black to -), and ensure the vehicle's electrical system is within normal operating parameters. Reconnect carefully.

For persistent issues, contact FERVE customer support or a qualified technician.

## 6. SPECIFICATIONS

Feature	Detail
Model	F-515
Brand	FERVE
Technology	Supercapacitor (EDLC Booster)
Voltage Compatibility	12V
Continuous Discharge Current	300 A
Peak Discharge Current (3 sec)	500 A
Peak Amps (Max)	1100 A
Dimensions (L x W x H)	24 x 5 x 12 cm
Weight	1.2 Kilograms
Protection Level	IP65 (Dust tight and protected against low-pressure water jets)
Lifecycles	>500,000
Manufacturer	FERVE, S.A.

## 7. WARRANTY AND SUPPORT

### Warranty Information

Specific manufacturer warranty details are not provided in the product data. Please refer to the retailer's return policy or contact the manufacturer directly for warranty terms and conditions. Standard return policies, such as Amazon's

14-day return window, may apply for initial product issues.

## Customer Support

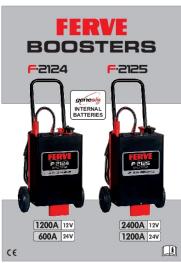
For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact FERVE S.A. directly. Contact information can typically be found on the manufacturer's official website or through the retailer from whom the product was purchased.

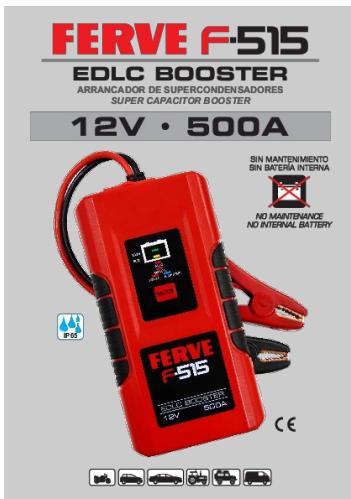
You can also visit the official FERVE website for more information:[www.ferve.com](http://www.ferve.com)

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This manual is for informational purposes only. Specifications are subject to change without notice.

## Related Documents - F-515

	<p><a href="#"><u>FERVE F-2124 / F-2125 Battery Booster User Manual</u></a></p> <p>Discover how to safely and effectively use FERVE F-2124 and F-2125 battery boosters with this comprehensive operating and safety manual. Covers setup, charging, testing, 12V/24V start-up, and maintenance.</p>
	<p><a href="#"><u>FERVE F-505 Booster Box: Manual de Usuario y Especificaciones</u></a></p> <p>Descubra el FERVE F-505 Booster Box, un arrancador multifunción portátil de 12V con 400A de potencia y 800A pico. Incluye batería de litio de 18000mAh, salidas USB y funciones de linterna. Consulte el manual para instrucciones de uso y seguridad.</p>
	<p><a href="#"><u>Ferve Prima Battery Chargers F-806 and F-807 User Manual</u></a></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><a href="#"><u>FERVE DUAL F-908 Battery Charger - 12V, 5-10A, Ripple Free Technology</u></a></p> <p>Comprehensive guide to the FERVE DUAL F-908 battery charger. Learn about its features, specifications, safe operation, and warranty. Ideal for 12V batteries, including AGM, GEL, and LIQ types.</p>
	<p><a href="#"><u>Ferve Prima Battery Chargers: Operating Instructions and Safety Manual</u></a></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><a href="#"><u>FERVE Fast Battery Chargers: User Manual and Specifications</u></a></p> <p>Comprehensive guide to FERVE Fast battery chargers, including models F-923, F-925, F-925RF, F-970, and F-970RF. Covers safety precautions, operating instructions, technical specifications, and warranty information.</p>



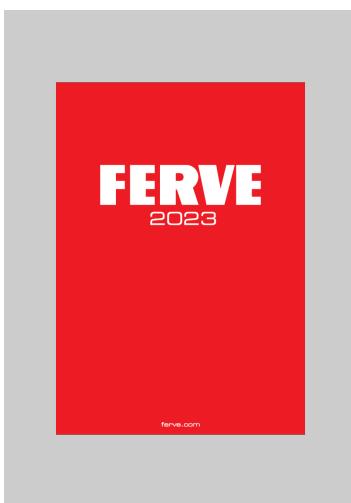
[\[pdf\]](#) User Manual

INSTRUCCIONS F 515 11 mar 2024 r — Si el FERVE no se carga en modo AUTO POWER ilumina cargue la salida de 12 V del encendedor otro vehículo Instruccions web ferve |||

**F-515 EDLC BOOSTER ARRANCADOR DE SUPERCONDENSADORES SUPER CAPACITOR BOOSTER 12V 500A SIN MANTENIMIENTO SIN BATERIA INTERNA NO MAINTENANCE NO INTERNAL BATTERY IP65 PRECAUCIONES**

**PRECAUTIONS** | Lea el manual de instrucciones antes de usar el **F-515**. | Read the instruction manual before using the F-51...

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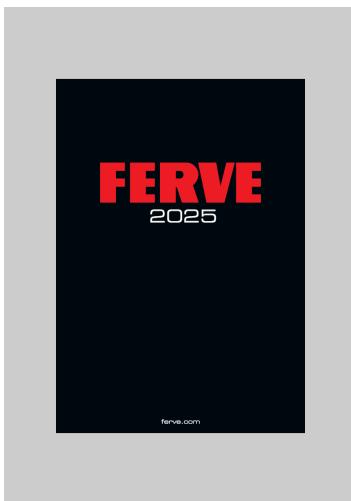


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