

Model: FG301 (4000A Peak Current)

## 1. Overview

The FNNEMGE Booster Battery is a portable 12V jump starter designed to start vehicles with petrol engines up to 8.0L or diesel engines up to 6.5L. It incorporates a high-capacity lithium polymer battery, an LCD screen, a multi-mode LED light, and USB charging ports.



The device is intended for use as an emergency power source for starting vehicles and as a portable power bank for electronic devices.

## 2. Package Contents

- 1 x Portable Jump Starter (Main Unit)
- 1 x Smart Jump Lead (Cable with Clamps)
- 1 x USB-C Charging Cable

- 1 x Storage Bag
- 1 x User Manual (this document)



### 3. Key Features and Components

#### 3.1. Power and Capacity

- **Peak Current:** 4000A
- **Rated Voltage:** 12V DC
- **Battery Type:** Lithium Polymer
- **Vehicle Compatibility:** Cars, trucks, motorcycles, boats, lawnmowers, snowmobiles, and other 12V vehicles.

#### 3.2. HD LCD Display

The unit features a digital LCD screen that shows operational status.



The display typically shows:

- Battery charge level (percentage)
- Input/Output status (when charging or discharging)
- Temperature warnings (high/low operating temperature alerts)
- Error or protection mode indicators

### 3.3. LED Light

The built-in LED light has three modes:

1. **Flashlight:** Steady beam (400 lumens).
2. **Strobe Light:** Flashing light for signaling.
3. **SOS Light:** Flashes in the international distress signal pattern.



### 3.4. USB Power Bank Function

The device has two USB output ports and a USB-C charging input port, allowing it to charge phones, tablets, and other USB-powered devices.



### 3.5. Safety Protections

The jump starter includes 10 intelligent safety mechanisms designed to protect against:

- Overload
- Short Circuit
- Reverse Polarity (incorrect connection)
- Over-voltage / Surge
- Sparks

The smart jump lead clamps provide visual indication lights and audible beeps to signal connection status and errors.



## 4. Use Guide

### 4.1. Charging the Jump Starter

1. Connect the provided USB-C cable to the charging port on the jump starter.

2. Connect the other end of the cable to a standard USB power adapter (not included) or a computer USB port.
3. The LCD display will show the charging status and battery level. Charge the unit fully before first use and after each use.

## 4.2. Jump Starting a Vehicle

**WARNING:** Always read the vehicle's owner manual for specific instructions and safety warnings before attempting a jump start. Ensure the jump starter and clamps are away from engine moving parts and battery acid.



1. **Prepare the Vehicle:** Turn off the vehicle's ignition and all electrical accessories (lights, radio, etc.).
2. **Connect the Smart Jump Lead:**
  - Plug the jump lead connector firmly into the output port on the jump starter.
  - Connect the **RED** positive (+) clamp to the positive (+) terminal of the vehicle's dead battery.
  - Connect the **BLACK** negative (-) clamp to a clean, unpainted metal part of the vehicle's engine block or chassis (a ground point), away from the battery and fuel lines.
3. **Check Connections:** The smart clamps will indicate a correct connection. Listen for beeps and observe the indicator lights on the clamps. If an error is indicated (e.g., rapid beeping or red light), disconnect immediately and check the connections.
4. **Start the Vehicle:**
  - Ensure the jump starter is powered on.
  - Start the vehicle's engine. It should start within a few seconds.
  - If the vehicle does not start after 3-5 seconds, wait 30 seconds before attempting again.

5. **Disconnect the Clamps:** Once the vehicle is running:

- Disconnect the **BLACK** negative (-) clamp from the vehicle.
- Disconnect the **RED** positive (+) clamp from the vehicle battery.
- Unplug the jump lead from the jump starter.

6. **Recharge the Jump Starter:** Recharge the unit as soon as possible after use to ensure it is ready for the next emergency.

### 4.3. Using the LED Light

1. Locate the light button on the jump starter.
2. Press the button repeatedly to cycle through the modes: Flashlight -> Strobe -> SOS -> Off.
3. Press and hold the button to turn the light off directly.

### 4.4. Using the USB Power Bank

1. Ensure the jump starter has sufficient charge (check the LCD display).
2. Connect your device (phone, tablet, etc.) to one of the USB output ports using your own USB cable.
3. Charging will begin automatically. The LCD may show an output indicator.

## 5. Maintenance and Storage

- Recharge the jump starter at least once every three months if not used, to maintain battery health.
- Store the device in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the unit and clamps clean and dry. Wipe with a dry cloth if necessary.
- Do not disassemble or attempt to repair the unit.

## 6. Troubleshooting

Problem	Possible Cause	Solution
Jump starter does not power on.	Battery is completely depleted.	Connect the USB-C cable and charge the unit for several hours.
Smart clamps beep continuously or show red light.	Reverse polarity, poor connection, or short circuit detected.	Disconnect clamps immediately. Verify correct connection order: Red to battery positive (+), Black to vehicle ground (NOT battery negative). Ensure clamps have solid metal contact.
Vehicle does not start.	Jump starter battery low; vehicle battery severely depleted; clamps not making good contact; vehicle issue not related to battery.	Recharge jump starter. Clean battery terminals and ensure solid clamp connection. If problem persists, the vehicle may require professional service.
LCD shows a high/low temperature warning.	Device is operating outside its safe temperature range.	Move the device to a location with a moderate ambient temperature (refer to specifications) before using or charging.
USB ports not charging devices.	Jump starter battery is low; USB cable is faulty.	Recharge the jump starter. Try a different USB cable.

## 7. Specifications

- **Model:** FG301
- **Peak Current:** 4000A
- **Rated Voltage:** 12V
- **Battery Capacity:** Not specified in provided data.
- **Battery Type:** Lithium Polymer
- **USB Output:** 5V DC
- **LED Light:** 400 Lumens
- **Item Weight:** 0.75 kg
- **Dimensions:** 26.9 x 23.4 x 6.9 cm
- **Operating Temperature:** Refer to LCD display for alerts. (Specific range not provided in source).

## 8. Warranty and Support

This product is covered by a **2-year warranty** from the date of purchase. The manufacturer offers lifetime technical support.

**For product support or warranty claims:** Please use the contact email address provided in the printed user manual included in the box.

### Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.