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> LEFANEV 40A EV Charger Level 2 Station Instruction Manual

## LEFANEV LF-F30-40A-NEMA14-50

# LEFANEV 40A EV Charger Level 2 Station Instruction Manual

Model: LF-F30-40A-NEMA14-50

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your LEFANEV 40A EV Charger Level 2 Station. Please read this manual thoroughly before using the product to ensure safe and efficient operation. This charger is designed to provide a reliable and fast charging solution for electric and hybrid vehicles compatible with the SAE J1772 standard.

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions may result in fire, electric shock, serious injury, or death.

- Ensure installation is performed by a qualified electrician in accordance with all local and national electrical codes.
- Do not attempt to open, disassemble, repair, or modify the charging station.
- Do not use the charger if the cable, plug, or charging station is damaged.
- Keep children away from the charging station during operation.
- Do not immerse the charging station or charging cable in water. The unit is IP66 waterproof, but direct immersion is not recommended.
- Ensure the NEMA 14-50 outlet is properly installed and grounded.
- Avoid using extension cords or adapters with this charging station.
- Operate the charger within the specified temperature range of -25°C to +55°C.

## 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x LEFANEV Wall Electric Vehicle Charging Station (backplate pre-installed)
- 1 x Screw Kits and Hooks
- 1 x User Manual

## 4. PRODUCT FEATURES

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The LEFANEV 40A EV Charger Level 2 Station offers advanced features for efficient and safe electric vehicle charging:

- **Max 40 Amp Charging:** Intelligently adjusts current based on the electric vehicle's acceptance, typically between 32-40 Amps.
- **Level 2 Charging:** 240 Volts, NEMA 14-50 plug, 9.6 kW power output. Charges up to 8 times faster than a standard wall outlet.
- **Universal Compatibility:** Meets SAE J1772 standard, compatible with most electric and hybrid vehicles.
- **Durable and Weatherproof:** IP66 waterproof rating for indoor/outdoor installation. Features an aluminum alloy casing and PC alloy panel for enhanced durability and IK anti-collision level up to 10.
- **Smart and Intelligent Design:** Built-in intelligent chip monitors voltage, current, charging time, and power consumed.
- **LCD Display:** Provides real-time information on charging status, including current, voltage, power consumed, and charging time.
- **Safety Features:** Silver-plating on SAE J1772 charging pins for better conductivity and to prevent overheating.

## CHARGING STATION

the station uses an aluminum alloy casing and a PC alloy panel to make our station stronger.

The IK anti-collision level is up level 10, and it will not be damaged even if it bears the weight of a car. And the station is designed with a curved frame to prevent children from being injured when they hit a sharp corner during play.



Image: Detailed view of the charger's LCD display, showing real-time charging data such as current, voltage, power consumed, and charging duration.

# NEMA 14-50

STANDARD WALL PLUG  
Mates with a 14-50R Receptacle



*Image: Overview of the charging station's key components including the LCD display, LED indicator, start/stop button, and construction materials.*

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your EV charger. It is highly recommended that a qualified electrician performs the installation.

### 5.1 Mounting the Charging Station

1. **Remove the Backplate:** Carefully remove the pre-installed backplate from the charging station. This usually involves unscrewing a few screws on the sides or bottom.
2. **Mark Punch Positions:** Hold the backplate against the desired wall location. Use a marker to mark the positions for drilling holes. Ensure the location is suitable for a NEMA 14-50 outlet and allows for cable management.
3. **Drill Holes and Screw In:** Drill pilot holes at the marked positions. Secure the backplate to the wall using the provided screws.
4. **Install Mounting Hook:** Install the cable mounting hook next to the charging station at a convenient height to hold the charging cable.
5. **Mount the Charger:** Align the charging station with the installed backplate and slide it into place. Secure the charger to the backplate using the screws removed in step 1.

6. **Secure and Seal:** Insert the dust plugs into the screw holes for a clean finish and added protection.

7. **Remove Screen Film:** Peel off the protective film from the LCD screen.

- Real-time current
- Real-time voltage
- Power consumed
- Reted current
- Charging icon
- Charging time



Image: The LEFANEV EV Charger installed on a wall, showing the main unit and the charging cable holder.

## 5.2 Electrical Connection

The LEFANEV 40A EV Charger requires a NEMA 14-50 outlet. This is a 240-volt outlet typically used for electric ranges or dryers. Ensure your electrical panel can support a dedicated 50-amp circuit for this outlet.

- Confirm the NEMA 14-50 outlet is correctly wired and grounded.
- Plug the charger's NEMA 14-50 plug directly into the dedicated wall outlet.

# The Silverplating on the standard SAE J1772 (type 1) charging Pins

Plug uses the whole mold technology, there is no screws on the plug, only one screw for connecting the wire at the bottom. There is no possibility of malicious removal, and avoid the situation of screw loose



Image: Illustration of the NEMA 14-50 plug and the corresponding wall receptacle required for the charger.

## 6. OPERATING INSTRUCTIONS

Using your LEFANEV EV Charger is straightforward:

- 1. Connect to Power:** Ensure the charger is securely plugged into the NEMA 14-50 wall outlet. The charger's display should illuminate.
- 2. Connect to Vehicle:** Open your electric vehicle's charging port. Take the SAE J1772 charging connector from the charging station and firmly insert it into your vehicle's charging port. Ensure it clicks into place.
- 3. Initiate Charging:** The charging process should begin automatically. The LCD display on the charger will show real-time charging information, including current (Amps), voltage (Volts), power consumed (kWh), and elapsed charging time. The LED indicator will also show charging status.
- 4. Monitor Charging:** You can monitor the charging progress both on the charger's display and often within your vehicle's infotainment system or companion app.
- 5. Stop Charging:** To stop charging, first unlock your vehicle's charging port (if applicable), then press the "Start & Stop" button on the charger, and finally, safely remove the charging connector from your vehicle.
- 6. Store Cable:** Coil the charging cable neatly on the mounting hook to prevent damage and keep the area tidy.



*Image: An electric vehicle connected to the LEFANEV charging station, illustrating the charging process.*

## 6.1 Understanding the Display

The LCD display provides critical information during charging:

- **Current (A):** Shows the real-time charging current in Amperes.
- **Voltage (V):** Displays the real-time charging voltage in Volts.
- **Power Consumed (kWh):** Indicates the total energy delivered to the vehicle during the current charging session.
- **Charging Time:** Shows the duration of the current charging session.
- **Charging Icon:** A visual representation of the battery charging status.
- **Temperature:** Displays the internal temperature of the charging unit.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your LEFANEV EV Charger:

- **Cleaning:** Wipe the charging station and cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the unit is unplugged before cleaning.
- **Cable Inspection:** Periodically inspect the charging cable and connector for any signs of wear, cuts, or damage. If any

damage is found, discontinue use immediately and contact customer support.

- **Storage:** When not in use, ensure the charging cable is properly coiled and stored on the mounting hook to prevent kinks or damage.
- **Environmental Conditions:** While the unit is IP66 rated, avoid prolonged exposure to extreme weather conditions if possible.

## 8. TROUBLESHOOTING

If you encounter issues with your LEFANEV EV Charger, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Charger not turning on.	No power from the outlet; charger not fully plugged in.	Check the NEMA 14-50 outlet for power. Ensure the charger's plug is fully inserted. Check circuit breaker.
Charging not starting.	Vehicle not ready to charge; charging connector not fully inserted; vehicle charging limit set too low.	Ensure your vehicle is ready to accept a charge. Re-insert the charging connector firmly. Check vehicle settings for charging limits.
Slow charging speed.	Vehicle charging limit; shared circuit with other appliances.	Verify your vehicle's maximum allowable current is set to 40A or maximum power to 9.6kW. Ensure the NEMA 14-50 outlet is on a dedicated circuit.
Error message on display.	Internal fault; external issue.	Note the error code (if any) and consult the LEFANEV customer support. Try unplugging and re-plugging the charger.

If the problem persists after attempting these steps, please contact LEFANEV customer support.

## 9. SPECIFICATIONS

Feature	Detail
Model Number	LF-F30-40A-NEMA14-50
Operating Current	40 Amps (Max)
Voltage Range	220V - 240V
Maximum Power	9.6 KW
Waterproof Rating	IP66
Phase Mode	Single Phase
Installation Method	Wall/Stand
Enclosure Material	PC + Alloy
Length of Cable	20 ft / 6.1 m
Working Temperature	-25°C ~ +55°C
Connector Type	SAE J1772 (Type 1)
Product Dimensions	48 x 26 x 26 cm
Item Weight	5.92 kg

Feature	Detail
Certifications	FCC, CSA Listed (as per feature bullets)

## WALL EV CHARGER STATION 40Amp TYPE 1 ( SAE J1772 )

Mode C EV CHARGER

- Maximum Power: 9.6KW
- Large LCD to Display All the Car's Charging State
- Compatible with all **TYPE 1 ( SAE J1772 )** EV



*Image: Internal view highlighting the intelligent chip and robust design of the Level 2 EV charger.*

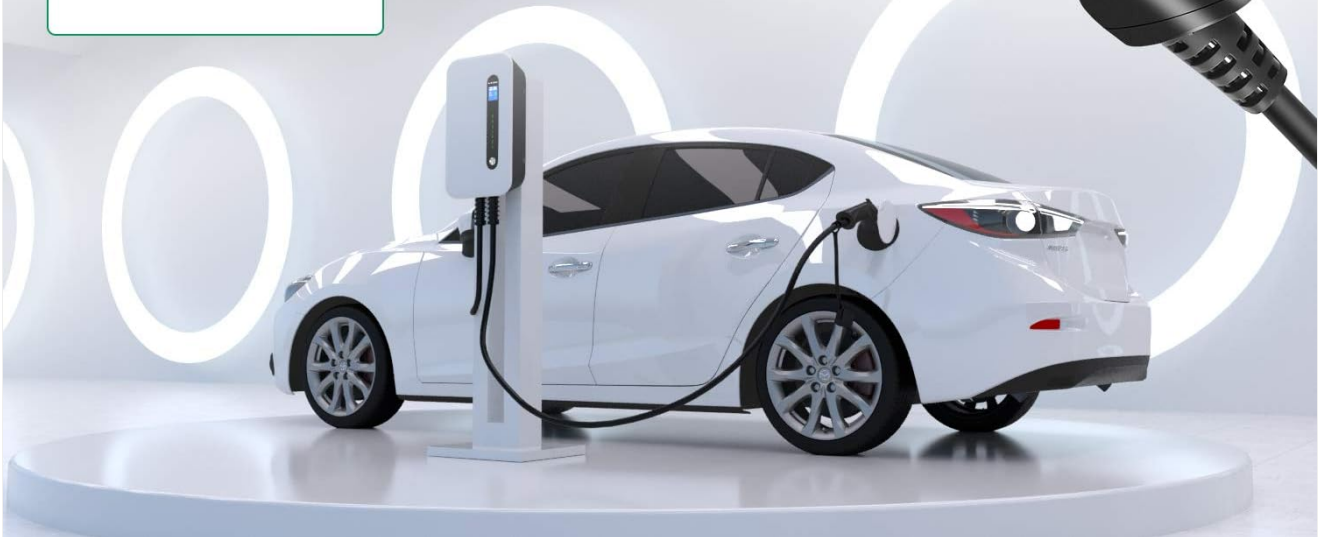
# The Silverplating on the standard SAE J1772 charging Pins

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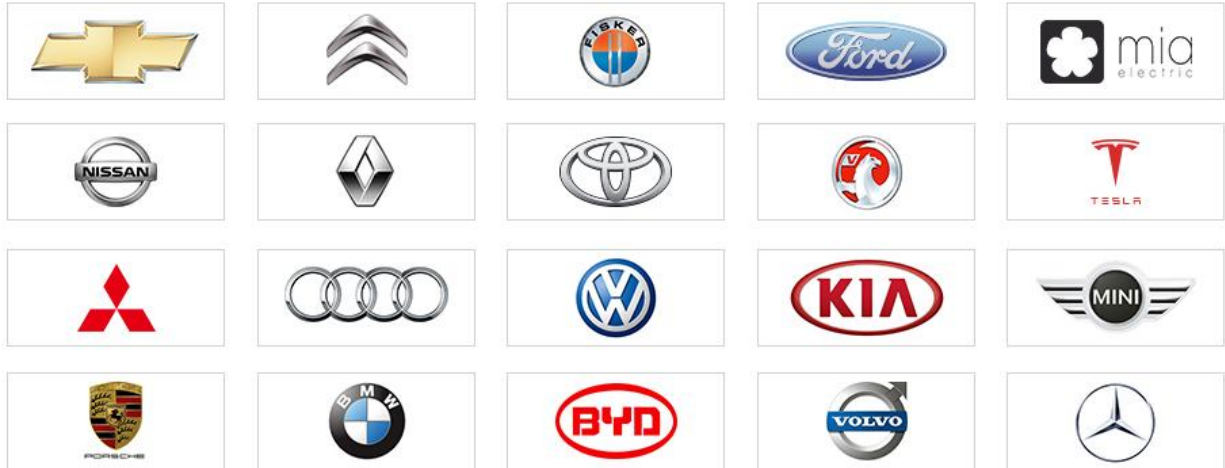
**Better conductivity**

**Prevent overheating**



*Image: Detailed view of the SAE J1772 charging pins, noting their silver-plating for improved conductivity and heat dissipation.*

## APPLY TO E-VEHICLE



CHEVROLET VOLT,CITROEN C-ZERO,FISKER KARMA,FORD FOCUS ELECTRIC,FORD C-MAX ENERGI, MIA, MIA ELECTRIC VAN,MITSUBISHI-1 MIEV,MITSUBISHI OUTLANDER PHEV, NISSAN NV200 SE VAN,NISSAN LEAF, PEUGEOT ION, RENAULT FLUENCE,RENAULT KANGOO, SMITHS EDISON VAN,SMITHS NEWTON, TATA LNDICA VISTA EV, TOYOTA PRIUS, VAUXHALL AMPERA...

*Image: A selection of electric vehicle brands compatible with the LEFANEV EV Charger, including Chevrolet, Ford, Nissan, Tesla, and others.*

## 10. WARRANTY AND SUPPORT

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**Warranty:** The LEFANEV 40A EV Charger Level 2 Station comes with a 12-month warranty from the date of purchase for quality-related problems.

**Customer Support:** For any questions, troubleshooting assistance, or warranty claims, please contact LEFANEV customer support. Refer to your purchase documentation for specific contact details.

*Unconditional replacement within 30 days for any issues not meeting your needs.*