

## ELEGRP ECP24-16F0-01

# ELEGRP ECP24-16F0-01 Level 1/2 Portable EV Charger Instruction Manual

Model: ECP24-16F0-01

## INTRODUCTION

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Thank you for choosing the ELEGRP Level 1/2 Portable EV Charger. This manual provides essential information for the safe and efficient use of your charger. Please read it thoroughly before operation and retain it for future reference.

This charger is designed for electric vehicles (EVs), battery electric vehicles (BEVs), and plug-in hybrid electric vehicles (PHEVs) equipped with a J1772 charging port. It offers flexible charging options with both Level 1 (120V) and Level 2 (240V) capabilities.



Image: The ELEGRP Level 1/2 Portable EV Charger with its J1772 connector and control box.

## IMPORTANT SAFETY INFORMATION

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Always follow basic safety precautions when using electrical products to reduce the risk of fire, electric shock, and personal injury. This charger incorporates advanced safety features, including PBE technology for protection against surges, leakage, and overloads, and LRC technology for stable charging.

- Do not immerse the charger in water or other liquids.
- Do not operate the charger if the cable or connector is damaged.
- Ensure the charging port on your vehicle is clean and dry before connecting.
- Keep children away from the charging area.
- Do not use extension cords or adapters other than the one provided.

- If the charger shows any signs of malfunction, discontinue use immediately and contact support.



Image: Diagram illustrating the PBE Platform's safety features, including over-temperature, over-current, over-voltage, ground, automatic power-off, overload, under-voltage, leakage, and surge protection.

## WHAT'S IN THE BOX

Verify that all components are present and undamaged upon unpacking.

- J1772 EV Charger (25FT cable)
- NEMA 6-20 Plug (integrated)
- NEMA 5-15 Adapter
- Carry Bag



Image: A visual representation of the charger components, including the main unit with 25ft cable, NEMA 5-15 adapter, and carry bag, along with their dimensions.

## SETUP INSTRUCTIONS

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The ELEGRP EV Charger offers flexible charging options depending on your available power outlet.

### 1. Choose Your Charging Level:

Your charger supports two charging levels:

- **Level 2 Charging (240V, 16A):** For faster charging, use the integrated NEMA 6-20 plug with a compatible 240V outlet. This provides up to 3.84 kWh (approximately 11-14 miles per hour).
- **Level 1 Charging (120V, 12A):** For standard charging, attach the included NEMA 5-15 adapter to the NEMA 6-20 plug and connect to a standard 120V household outlet. This provides up to 1.44 kWh (approximately 4-5 miles per hour).

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## Plug and Play-Fits Most US Outlets



**For Faster  
Charging  
NEMA 6-20  
(240V)**

In your garage

**240V | 16A | Level 2**



**For Every-  
day Use  
NEMA 5-15  
(120V)**

Standard Outlet

**120V | 12A | Level 1**

Free Adapter  
Included

Image: Comparison of NEMA 6-20 (240V, Level 2) and NEMA 5-15 (120V, Level 1) outlets, showing how the charger connects to each.

# 2 Charging Speeds, Your Outlet Decides



NEMA  
6-20

## Level 2 (240V/16A)

Up to **3.84kW**

9-12 miles/hour



NEMA  
5-15

## Level 1 (120V/12A)

**1.44kW** (NEC Limited)

2-5 miles/hour

Note: 120V speed is limited by U.S. National Electrical Code (NEC) – not by our charger.

Image: A table illustrating the charging speeds (kW and miles/hour) for Level 1 (NEMA 5-15) and Level 2 (NEMA 6-20) charging.

### 2. Connect to Power Outlet:

Plug the appropriate connector (NEMA 6-20 directly or with 5-15 adapter) into a dedicated electrical outlet. Ensure the outlet is properly grounded and in good condition. The charger's indicator light will illuminate green when successfully connected to power.

### 3. Prepare for Vehicle Connection:

Ensure your vehicle is parked in a safe location and turned off. Open the charging port cover on your electric vehicle.

## OPERATING INSTRUCTIONS

### 1. Connect to Vehicle:

Firmly insert the J1772 charging connector into your vehicle's charging port. You should hear a click indicating a secure connection. The charger's indicator light will change to a high brightness green, indicating the vehicle is connected.

Your browser does not support the video tag.

Video: A demonstration of how to connect the ELEGRP EV charger to an electric vehicle's charging port, showing the process from plugging into the wall to connecting to the car.

## 2. Begin Charging:

Once connected, the charger will automatically initiate the charging process. The indicator light will show a breathing green pattern during active charging.

## 3. Monitor Charging Status (LED Indicator):

The LED light on the charger provides visual feedback on its status:

| LED Color               | LED State          | Description                                                         |
|-------------------------|--------------------|---------------------------------------------------------------------|
| GREEN (LOW brightness)  | Power-on           | Charger energized.                                                  |
| GREEN (LOW brightness)  | Standing-by        | Energized but charging plug is not connected to the vehicle.        |
| GREEN (HIGH brightness) | Vehicle Connected  | The charging plug is plugged into the port on the vehicle.          |
| GREEN (Breathing)       | In Charging        | In normal charging process.                                         |
| GREEN (Blinking)        | Charging Paused    | Charging paused on the vehicle side request; the charger turns off. |
| GREEN (HIGH brightness) | Non-fault shutdown | Non-fault shutdown and charging plug remains connected.             |
| RED                     | Fault              | Fault detected; charger output shutdown. Refer to Troubleshooting.  |



Image: A detailed table showing the different LED colors and states of the charger, along with their corresponding meanings.

## 4. End Charging:

To stop charging, first disconnect the J1772 connector from your vehicle's charging port. Then, unplug the charger from the wall outlet.

## VEHICLE COMPATIBILITY

This charger is universally compatible with all SAE J1772 certified electric vehicles (EVs), battery electric vehicles (BEVs), and plug-in hybrid electric vehicles (PHEVs).

**Note for Tesla Owners:** A J1772-to-NACS adapter (sold separately) may be required for Tesla vehicles. Please verify your car's compatibility before purchase.

A graphic with a dark blue background. On the left, the ELEGRP logo is in blue. In the center, the text 'Universal J1772 Compatibility' is written in large white font. Below this, a list of car brands and models is shown in two columns. The brand names are in blue, and the model names are in white. On the right side of the graphic, there is a photograph of a silver Volvo XC40 Recharge parked in a garage, with a black J1772 charging cable plugged into a wall outlet.

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# Universal J1772 Compatibility

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| <b>Chevrolet</b>  | Bolt EV/ Bolt EUV                                              |
| <b>Ford</b>       | Mustang Mach-E/ F-150 Lightning/ E-Transit                     |
| <b>Rivian</b>     | R1S/ R1T                                                       |
| <b>Volkswagen</b> | ID4/ ID.4/ ID.6/ e-Golf                                        |
| <b>Lincoln</b>    | Corsair Grand Touring                                          |
| <b>Audi</b>       | Q4 e-tron/ Q8 e-tron Sportback/ Q4 Sportback e-tron/ Q8 e-tron |
| <b>KIA</b>        | EV 6/EV 9/Niro EV/Soul EV                                      |
| <b>BMW</b>        | i3/ iX3/ i4/ iX/ MINI Cooper SE                                |
| <b>Nissan</b>     | leaf/ Ariya                                                    |
| <b>Volvo</b>      | XC40 Recharge/ C40 Recharge/ EC40                              |
| <b>Polestar</b>   | Polestar 2                                                     |
| <b>MINI</b>       | Cooper SE                                                      |
| <b>Porsche</b>    | Taycan/ Mission E Cross Turismo                                |
| <b>Honda</b>      | Prius Prime/ Prius Plug-in Hybrid                              |
| <b>Jaguar</b>     | I-PACE                                                         |
| <b>Ferrari</b>    | SF90 Stradal                                                   |
| <b>Cadillac</b>   | Lyriq                                                          |

Image: A list of popular EV brands and models compatible with the J1772 charging standard.

## MAINTENANCE

- **Cleaning:** Disconnect the charger from power and the vehicle before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the charger in its provided carry bag in a dry, clean place, away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid kinking, twisting, or driving over the charging cable. Ensure the cable is neatly coiled when stored to prevent damage. The 25FT cable is designed for durability and flexibility.
- **Environmental Conditions:** The charger is IP67 weatherproof, designed to operate in temperatures from -21°F to 121°F, and resistant to heavy rain or snow. However, prolonged exposure to harsh conditions should be minimized when possible.

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## Charging Anytime, Anywhere



Image: The ELEGRP EV charger shown operating in both rainy and snowy conditions, highlighting its IP67 weatherproof rating and wide temperature tolerance.

Your browser does not support the video tag.

Video: A demonstration of the charger's durability, showing it being run over by a vehicle to illustrate its mechanical strength and crush resistance.

## TROUBLESHOOTING

If you encounter issues with your ELEGRP EV Charger, refer to the following common problems and solutions:

| Problem                                                                   | Possible Cause                                                                                             | Solution                                                                                                                                                                                                               |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Charger not powering on (no LED light)                                    | No power from outlet; faulty outlet; damaged charger cable.                                                | Check the power outlet with another device. Ensure the plug is fully inserted. Inspect the cable for visible damage. Try a different outlet.                                                                           |
| Charger connected but not charging (Green LED low brightness/standing by) | J1772 connector not fully inserted into vehicle; vehicle charging port issue; vehicle not ready to charge. | Ensure the J1772 connector is firmly seated in the vehicle's port. Check your vehicle's dashboard or app for charging status. Try re-plugging the connector.                                                           |
| Red LED light (Fault)                                                     | Over-temperature, over-current, over-voltage, ground fault, leakage, or other internal fault detected.     | Immediately disconnect the charger from both the vehicle and the power outlet. Allow it to cool down. Inspect the cable and connectors for damage. If the fault persists after reconnecting, contact customer support. |
| Slow charging speed                                                       | Using Level 1 (120V) outlet; vehicle charging settings; external factors (e.g., cold weather).             | Ensure you are using a NEMA 6-20 (240V) outlet for Level 2 charging if faster speed is desired. Check your vehicle's charging settings. Charging speed can be affected by ambient temperature.                         |

For issues not listed here or if solutions do not resolve the problem, please contact ELEGRP customer support.

## SPECIFICATIONS

| Feature               | Detail                                      |
|-----------------------|---------------------------------------------|
| Model                 | ECP24-16F0-01                               |
| Input Voltage         | 110V-240V AC                                |
| Amperage              | 16 Amps                                     |
| Wattage               | 1920 watts (Level 1), 3840 watts (Level 2)  |
| Charging Connector    | SAE J1772                                   |
| Power Plugs           | NEMA 6-20 (integrated), NEMA 5-15 (adapter) |
| Cable Length          | 25 feet                                     |
| Operating Temperature | -21°F to 121°F (-29°C to 49°C)              |
| Waterproof Rating     | IP67                                        |
| Item Weight           | 7 pounds                                    |

| Feature            | Detail                               |
|--------------------|--------------------------------------|
| Product Dimensions | 14.3 x 13.3 x 4.7 inches (packaging) |

## WARRANTY INFORMATION

The ELEGRP Level 1/2 Portable EV Charger is backed by a **2-year replacement warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or non-human induced defects.

For warranty claims or further details, please contact our customer support team.

## CUSTOMER SUPPORT

Our U.S.-based expert support team is available to assist you with any questions or issues you may have.

**Availability:** Monday – Saturday (5 AM – 3 PM PT)

**Phone:** 866-267-3272

**Online:** Visit the [ELEGRP Store on Amazon](#) for more information and contact options.

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## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question