

## Lectron EV-Charger48A-J1772

# Lectron V-Box 48 Amp Electric Vehicle Charging Station User Manual

Model: EV-Charger48A-J1772

## 1. INTRODUCTION AND PRODUCT OVERVIEW

The Lectron V-Box 48 Amp Electric Vehicle Charging Station is a powerful Level 2 EV charger designed for efficient and convenient home charging. It offers flexible installation options, robust safety features, and a user-friendly interface to ensure a seamless charging experience for your electric vehicle.



*Figure 1: Lectron V-Box 48 Amp Electric Vehicle Charging Station.*

This charging station is compatible with all J1772 EVs, making it a versatile solution for most electric and plug-in hybrid vehicles.

# Compatible with all EV & Plug-in Hybrid Vehicles



Figure 2: Compatibility with various EV and Plug-in Hybrid Vehicles.

## 2. SAFETY INFORMATION

Please read all safety information carefully before installation and operation. This product is FCC and ETL certified (UL2594 standard) for safety and Energy Star certified for efficiency. It also boasts an IP55 weatherproof rating for durability.

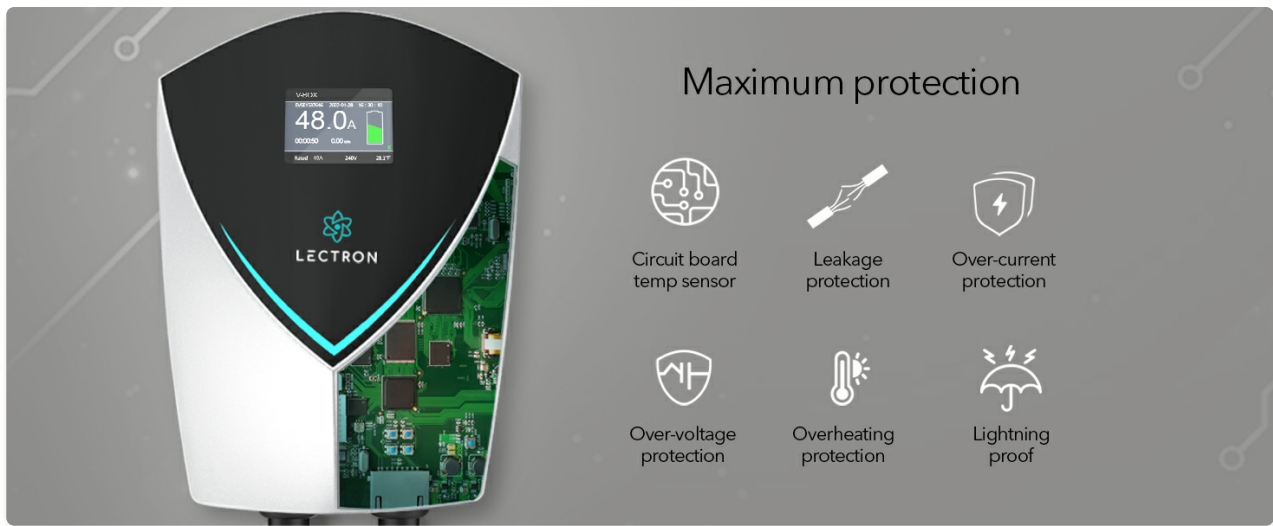


Figure 3: Maximum Protection Features.

- Installation should only be performed by a licensed and qualified electrician in accordance with all national and local electrical codes.
- Always shut off your circuit breaker before any hardwire installation.
- Do not attempt to repair the charging station or handle yourself. Contact customer support for assistance.
- Never use the charging station with an extension cord.
- Never use the charging station with any AC adapter.
- Ensure the plug is fully inserted into the wall outlet.
- Children should be supervised in the vicinity of the charging station.
- To reduce the risk of fire, connect only to a circuit provided with 50 ampere maximum branch circuit overcurrent protection.

### 3. WHAT'S IN THE BOX

The Lectron V-Box charging station comes with all necessary components for installation and immediate use.

- 1 x V-BOX charging station
- 1 x Mounting plate
- 1 x J-Hook
- 1 x Set screws + anchors (plate)
- 1 x Set screws + anchors (J-Hook)



*Figure 4: Lectron V-Box with included J-Hook for cable management.*

For a detailed unboxing and overview of the included components, please refer to the official product video below:

*Video 1: Lectron V-Box Level 2 EV Charger - 48 Amp EV Charging Station. This video provides a comprehensive look at the product, its features, and the unboxing experience.*

## 4. SETUP AND INSTALLATION

The Lectron V-Box is designed for straightforward installation. Follow these steps for proper setup:

### 4.1 Mounting the Unit

1. **Remove the mounting plate:** Loosen the four screws on each side of the V-Box to detach the metal mounting plate from the back of the unit.
2. **Mark drilling points:** Use the detached mounting plate as a template to mark the drilling locations on your desired wall surface. Ensure the location is suitable for electrical connections.
3. **Drill holes and insert anchors:** Drill holes at the marked locations and insert the provided wall anchors.

4. **Attach mounting plate:** Secure the mounting plate to the wall using the provided screws.
5. **Mount the V-Box:** Align the V-Box with the mounted plate and slide it down until it locks into place. Tighten the side screws to secure the unit.

Figure 5: Step-by-step guide for mounting the V-Box.

## 4.2 Electrical Connection

The V-Box can be plugged into a NEMA 14-50 outlet (40A max) or hardwired (48A max). Ensure your electrical setup meets the requirements for the desired amperage.



Figure 6: NEMA 14-50 Plug connection for 48 Amp Level 2 charging.

### Adjusting Amperage (Hardwired Installation Only)

By default, the V-Box is set to 48A. To adjust the amperage for hardwired installations, remove the plastic cover from the back of the V-Box and turn the dial to your preferred setting. This should only be done by a qualified electrician.

#### Amperage Settings

Dial Setting	Current (Amps)
0	16A
1	24A
2	32A
3	40A
4	48A

## 5. OPERATING INSTRUCTIONS

Using your Lectron V-Box is simple and intuitive.

### 5.1 Connecting to Your EV

1. Ensure the V-Box is powered on using the button on the side. The display will illuminate.



2. Open your EV's charging port.
3. Insert the J1772 connector firmly into your EV's charging port. The V-Box display will show charging status, and the V-lights will pulsate.



*Figure 7: Connecting the J1772 connector to an EV.*

## 5.2 Understanding the Display

The V-Box features a clear display that provides real-time charging information:

- **Real-time current:** Displays the current amperage being drawn.
- **Charging time:** Shows the duration of the current charging session.
- **Charging capacity:** Indicates the battery charge level.
- **Rated current:** Shows the maximum current setting.
- **Real-time voltage:** Displays the current voltage from the power source.
- **Grounding indicator:** Confirms proper grounding.
- **State of charge:** Visual representation of battery fill level.
- **Temperature:** Displays the operating temperature of the unit.

# Charge speed up to 46 mph



*Figure 8: V-Box display showing real-time charging data.*

## 6. MAINTENANCE

The Lectron V-Box is designed for durability and minimal maintenance. Keep the unit clean and free from debris. Regularly inspect the charging cable and connector for any signs of wear or damage. The IP55 weatherproof rating ensures protection against dust and water splashes, making it suitable for outdoor installation.

## 7. TROUBLESHOOTING

If you encounter any issues with your Lectron V-Box, refer to the following common troubleshooting steps:



Troubleshooting Guide

Problem	Possible Cause	Solution
Charger not powering on	No power from outlet; Unit is off	Check circuit breaker; Press power button on the side of the V-Box.
Charging not initiating	Connector not fully inserted; EV charging port issue; Amperage setting too high for circuit	Ensure firm connection; Check EV manual; Adjust amperage setting on V-Box (consult electrician).
Slow charging speed	Amperage setting is low; Electrical circuit limitation	Increase amperage setting (if circuit allows); Consult electrician for circuit upgrade.
Error message on display	Internal fault; Grounding issue; Overcurrent/Overvoltage	Refer to the user manual for specific error codes; Consult a qualified electrician.

8. SPECIFICATIONS

Detailed technical specifications for the Lectron V-Box 48 Amp Electric Vehicle Charging Station:

Lectron V-Box Specifications






Feature	Detail
Brand	Lectron
Model Number	EV-Charger48A-J1772
Input/Output Voltage	200V - 240V
Maximum Current	48A (Hardwired), 40A (NEMA 14-50)
Cable Length	20 feet
EV Connector	SAE J1772
Plug Type	NEMA 14-50
Item Weight	19.36 pounds
Product Dimensions	18.5 x 10.24 x 12.2 inches
Operating Temperature	-22°F to +122°F (-30°C to +50°C)
Material	ABS + PC alloy
Certifications	FCC, ETL (UL2594), Energy Star, IP55

## 9. WARRANTY AND SUPPORT

Lectron provides a 1-year warranty with every product purchase. For any questions, technical support, or warranty claims, please contact Lectron customer service. Refer to the official Lectron website for contact information.

For additional resources and product information, visit the official Lectron Store: [Lectron Store on Amazon](#).

### Related Documents - EV-Charger48A-J1772

 <p>40 Amp Portable EV Charger USER MANUAL</p>	<p><a href="#">Lectron 40 Amp Portable EV Charger User Manual</a></p> <p>User manual for the Lectron 40 Amp Portable EV Charger, detailing safety precautions, installation steps, LED indicator meanings, charging procedures, troubleshooting tips, and technical specifications for electric vehicle charging.</p>
 <p>V-BOX 48A EV Charging Station USER MANUAL</p>	<p><a href="#">Lectron V-BOX 48A EV Charging Station User Manual</a></p> <p>User manual for the Lectron V-BOX 48A EV Charging Station, covering installation, operation, and safety information.</p>
 <p>Lectron 40 Amp Level 2 EV Charger User Manual</p>	<p><a href="#">Lectron 40 Amp Level 2 EV Charger User Manual</a></p> <p>User manual for the Lectron 40 Amp Level 2 EV Charger, providing safety information, charging instructions, troubleshooting, and specifications.</p>
 <p>Lectron 32A Level 2 EV Charger USER MANUAL</p>	<p><a href="#">Lectron 32A Level 2 EV Charger User Manual</a></p> <p>User manual for the Lectron 32A Level 2 EV Charger. Provides essential safety information, step-by-step charging instructions, charging display overview, and technical specifications for electric vehicle charging.</p>
 <p>USER MANUAL 15A-LEVEL 1-J1772 SMART PORTABLE EV CHARGER USER MANUAL</p>	<p><a href="#">Lectron 15A Level 1 Smart Portable EV Charger User Manual</a></p> <p>Comprehensive user manual for the Lectron 15A Level 1 Smart Portable EV Charger. Learn about setup, safety, app connectivity, charging, troubleshooting, and specifications for your electric vehicle.</p>



Portable Electric Car Charger  
(Level 2, 32A) User Manual



Need help? Send us an email at [support@lectron.com](mailto:support@lectron.com)

## [LECTRON Portable Level 2 EV Charger \(32A\) User Manual](#)

Comprehensive user manual for the LECTRON Portable Level 2 EV Charger (32A). Covers safety, setup, charging procedures, troubleshooting, and technical specifications for electric vehicle charging.