

WOLFBOX E50

WOLFBOX EV Charger Level 2 50 Amp User Manual

Model: E50 | Brand: WOLFBOX

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your WOLFBOX EV Charger Level 2 50 Amp. Please read this manual thoroughly before installation and use, and retain it for future reference. The WOLFBOX EV Charger is designed to provide fast and reliable charging for your electric vehicle, featuring smart controls, a user-friendly display, and robust safety features.



Image 1.1: WOLFBOX EV Charger Level 2 50 Amp, showing the unit, charging cable, and a smartphone displaying the charging app.

2. SAFETY INFORMATION

Your safety is paramount. This device is designed with multiple safety features, but proper installation and usage are critical. Please adhere to the following guidelines:

- **Professional Installation:** For your safety, the WOLFBOX EV Charger must be installed by a qualified and licensed electrician in accordance with all local and national electrical codes.
- **Circuit Breaker:** The Level 2 EV Charger 50 Amp requires installation on a dedicated circuit breaker rated at 70A or greater.
- **Certifications:** The EV charger is CSA certified and meets UL safety standards (UL2594 standard), ensuring compliance with rigorous safety requirements.

- **Environmental Protection:** The charger features NEMA 4X waterproof protective housing, making it suitable for both indoor and outdoor use and resilient to various weather conditions.
- **Electrical Protections:** The unit includes Ground Fault Protection, Over-Current Protection, Leakage Current Protection, Thermal Protection, High Voltage Protection, Low Voltage Protection, Over Charge Protection, and Lightning Protection.

Superior Electrical Protection



Ground Fault
Protection



Over-Current
Protection



Leakage Current
Protection



Thermal
Protection



High Voltage
Protection



Low Voltage
Protection



Over Charge
Protection



Lightning
Protection



**24/7 Customer
Support**

**Lifetime
Assistance**

**OTA
Updates**

Image 2.1: Visual representation of the superior electrical protection features, including ground fault, over-current, leakage current, thermal, high/low voltage, overcharge, and lightning protection.

NEMA 4X Protection

Perfect for Outdoors



Image 2.2: The WOLFBOX EV Charger shown in various environmental conditions, highlighting its NEMA 4X waterproof, dustproof, cold-resistant (-22°F), and heat-resistant (122°F) capabilities for outdoor use.

3. WHAT'S IN THE BOX

Carefully unpack your WOLFBOX EV Charger and ensure all items are present. If any items are missing or damaged, please contact customer support.

- Level 2 EV Charger Unit
- Connector Holder

- Wall Mount Bracket
- 1 Management Card and 2 RFID Charging Cards
- User Manual (this document)
- Amperage Label
- Self-tapping Screw (x11)
- Plastic Expansion Tube (x11)
- Machine Screw (x2)
- Anti-theft Locking Piece



POWER OUTPUT
Up to 12 kW

CURRENT OUTPUT
16A/24A/32A/40A/48A/50A

VOLTAGE
200-240 V AC

CIRCUIT BREAKER RATING
70A or Greater

SAFETY CERTIFICATIONS
CSA/FCC/Energy Star

PROTECTION FEATURES
**Overcurrent/Overvoltage/Undervoltage
Integrated surge protection**

PROTECTION RATING
NEMA 4 protection, IP66

MOUNTING TYPE
Wall mount

COMPATIBILITY
**SAE T1772-A11 EVS/ PHEVS in NA
(Tesla requires an adapter)**

INSTALLATION
Indoor/Outdoor

CONNECTION METHOD
Hardwired

CABLE LENGTH
25 feet

DIMENSIONS
12.68" x 7.46" x 4.76"

WI-FI
2.4 GHz 802.11 b/g/n

UPGRADE CAPABILITY
OTA(Over-The-Air updates)

Image 3.1: An illustration of all components included in the WOLFBOX EV Charger package, such as the charger unit, cables, mounting hardware, RFID cards, and documentation.

4. INSTALLATION GUIDE

The WOLFBOX EV Charger is designed for hardwired installation. Due to the electrical requirements and safety considerations, professional installation by a certified electrician is mandatory.

4.1 Pre-Installation Checklist

- Ensure you have a dedicated 240V circuit with a 70A or greater circuit breaker.
- Select a suitable indoor or outdoor location for mounting, considering cable reach (25ft cable provided).
- Confirm all package contents are present and undamaged.

4.2 Mounting the Charger

1. Use the provided wall mount bracket as a template to mark drilling points on the wall.
2. Drill holes and insert plastic expansion tubes.
3. Secure the wall mount bracket using the self-tapping screws.
4. Mount the charger unit onto the bracket.
5. Install the connector holder nearby for convenient cable management.

4.3 Electrical Wiring (Professional Electrician Only)

The hardwired connection involves connecting the charger's input wires directly to your home's electrical panel. This process requires specialized knowledge and tools. Your electrician will:

- Turn off power at the main breaker.
- Route the electrical conduit and wiring to the charger's location.
- Connect the charger's wires (L1, L2, Ground) to the appropriate terminals in the electrical panel.
- Ensure all connections are secure and meet local electrical codes.
- Restore power and test the installation.

Comprehensive Charging Data

- Access detailed charging statistics over time.
- Monitor electricity usage with clear graphs.
- Gain insights for better energy management and cost savings.

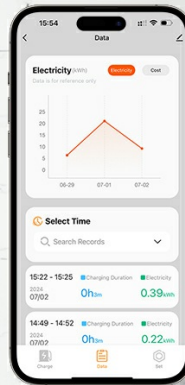


Image 4.1: A professional electrician performing the hardwired installation of an EV charger, emphasizing the need for expert service.

5. OPERATING INSTRUCTIONS

The WOLFBOX EV Charger offers multiple ways to manage your charging sessions.

5.1 Smart Display Overview

The 4.3-inch LCD screen on the charger displays real-time charging information, including:

- Charging Rate (kW)
- Charging Time
- Voltage (V)
- Current (A)
- Charged Amount (kWh)
- Temperature

Stay Informed Stay Secure

LED

Flowing Light Strip

4.3-inch

Smart LCD Display

RFID Card

Stop Unauthorized Use



Image 5.1: A detailed view of the WOLFBOX EV Charger's 4.3-inch smart LCD display showing charging status, and an RFID card being used for authentication.

5.2 Charging Methods

You can initiate and manage charging using the following methods:

- **Plug and Charge:** Simply connect the J1772 connector to your EV, and charging will begin automatically.
- **RFID Card:** Tap one of the provided RFID cards on the charger's sensor to start or stop a charging session. This prevents unauthorized use.
- **Mobile App Control:** Connect the charger to your home Wi-Fi network and download the WOLFBOX app to unlock advanced features.

5.3 Mobile App Features

The WOLFBOX mobile app provides comprehensive control and monitoring capabilities:

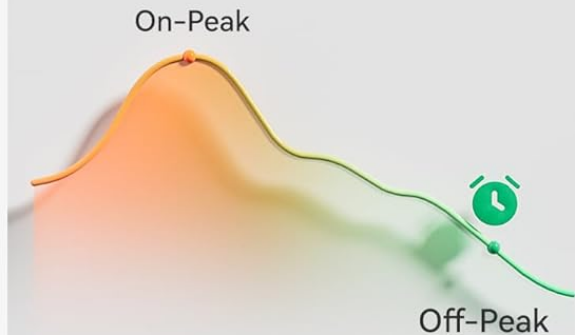
- **Real-time Charge Monitoring:** View live charging data, including power, voltage, current, and temperature.
- **Scheduled Charging:** Set specific start and end times for charging sessions, ideal for utilizing off-peak electricity rates.
- **Adjustable Charge Power:** Customize the current intensity (e.g., 16A to 50A) to suit your needs or optimize battery life.
- **Remote Charging Control:** Start or stop charging sessions from anywhere.
- **Multi-user Access Management:** Share device control with multiple users in your household.
- **Voice Control:** Integrate with Alexa and Google Assistant for convenient voice commands.
- **Comprehensive Charging Data:** Access historical charging statistics and monitor electricity usage with graphs.
- **Personalized Settings:** Customize temperature and cost units, input vehicle details, and control the indicator light.

Smart App Integration

Real-time Charge Monitoring



Scheduled charging

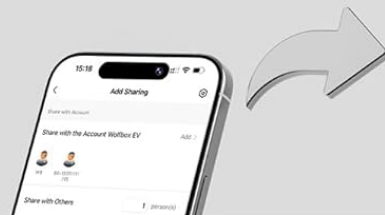


Work with Alexa and Google Assistant

Adjustable Charge Power



Multi-user Access Management



Remote Charging Control



Plug and Charge



Image 5.2: A visual breakdown of the smart app's functionalities, including real-time monitoring, scheduled charging, adjustable power, remote control, multi-user access, and integration with voice assistants.


6. COMPATIBILITY


The WOLFBOX EV Charger is universally compatible with all electric vehicle models that use the SAE J1772 charging standard.

- **J1772 Standard:** Compatible with the vast majority of EVs in North America.
- **Tesla Vehicles:** Tesla EVs require a specific adapter to be compatible with the J1772 connector. Please

contact WOLFBOX customer service to inquire about obtaining a Tesla adapter.

Compatible with **All EVs**

 Home Connection
Hardwired

 EV Connection
J1772

Flexible Compatibility

- Works with all EVs, including Tesla. Contact customer service to get a Tesla adapter.
- The WOLFBOX E50 offers up to 50A charging and requires a **70-amp** or greater breaker.
- **25ft** cable reaches any parking spot, perfect for home and outdoor use.




Image 6.1: The WOLFBOX EV Charger installed and connected to a white electric vehicle, demonstrating its compatibility with various EV models, including Tesla with an adapter.

7. MAINTENANCE

To ensure the longevity and optimal performance of your WOLFBOX EV Charger, follow these simple maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the charger unit and cable with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspect Cable and Connector:** Regularly check the charging cable and J1772 connector for any signs of wear, damage, or fraying. If damage is observed, discontinue use and contact customer support.
- **Keep Clear:** Ensure the area around the charger is free from obstructions to allow for proper ventilation.
- **Software Updates:** The charger supports OTA (Over-The-Air) updates. Ensure your charger's firmware is up-to-date via the mobile app for the best performance and latest features.

8. TROUBLESHOOTING

If you encounter any issues with your WOLFBOX EV Charger, please refer to the following common troubleshooting steps. If the problem persists, contact customer support.

8.1 Common Issues and Solutions

- **Charger Not Powering On:**
 - Check the circuit breaker in your electrical panel to ensure it hasn't tripped.
 - Verify that the charger is securely hardwired. If unsure, consult your electrician.
- **Charging Not Initiating:**
 - Ensure the J1772 connector is fully and securely plugged into your EV's charging port.
 - If using RFID, ensure the card is correctly tapped and recognized.
 - Check the mobile app for any error messages or paused charging schedules.
 - For Tesla vehicles, confirm the adapter is correctly seated and functional.
- **Slow Charging Speed:**
 - Verify the current setting in the mobile app; ensure it's set to your desired amperage.
 - Check your vehicle's charging settings, as some EVs allow you to limit charging speed.
 - Ensure your home's electrical system can deliver the full 50 Amp capacity.
- **App Connectivity Issues:**
 - Ensure your charger is within range of your Wi-Fi router.
 - Restart your Wi-Fi router and the charger.
 - Check for app updates on your smartphone.
- **Error Message on Display:**
 - Note down the specific error code or message displayed.
 - Refer to the full user manual (PDF) for a detailed list of error codes and their solutions.
 - If the issue is not resolved, contact customer support with the error details.

9. SPECIFICATIONS

Technical details for the WOLFBOX EV Charger Level 2 50 Amp (Model E50).

Feature	Detail
Model	E50

Feature	Detail
Power Output	Up to 12 kW
Current Output	16A/24A/32A/40A/48A/50A (Adjustable)
Input Voltage	200-240 V AC
Circuit Breaker Rating	70A or Greater (Required)
Cable Length	25 feet
Connector Type	SAE J1772
Installation Type	Hardwired
Mounting Type	Wall mount
Protection Rating	NEMA 4, IP66 (Waterproof, Dustproof)
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Connectivity	Wi-Fi (2.4 GHz 802.11 b/g/n), Bluetooth
Display	4.3-inch Smart LCD
Safety Certifications	CSA, FCC, Energy Star
Dimensions	12.68" x 7.46" x 4.76"
Item Weight	13.45 pounds
Upgrade Capability	OTA (Over-The-Air) updates

Certified and Reliable



24/7 Customer Support
Dedicated assistance anytime you need it.

Lifetime Assistance
We're here for you, for the life of your product.

OTA Updates
Keeping your device up-to-date effortlessly.

Image 9.1: A comprehensive table outlining the technical specifications of the WOLFBOX EV Charger, including power, voltage, current, and dimensions.

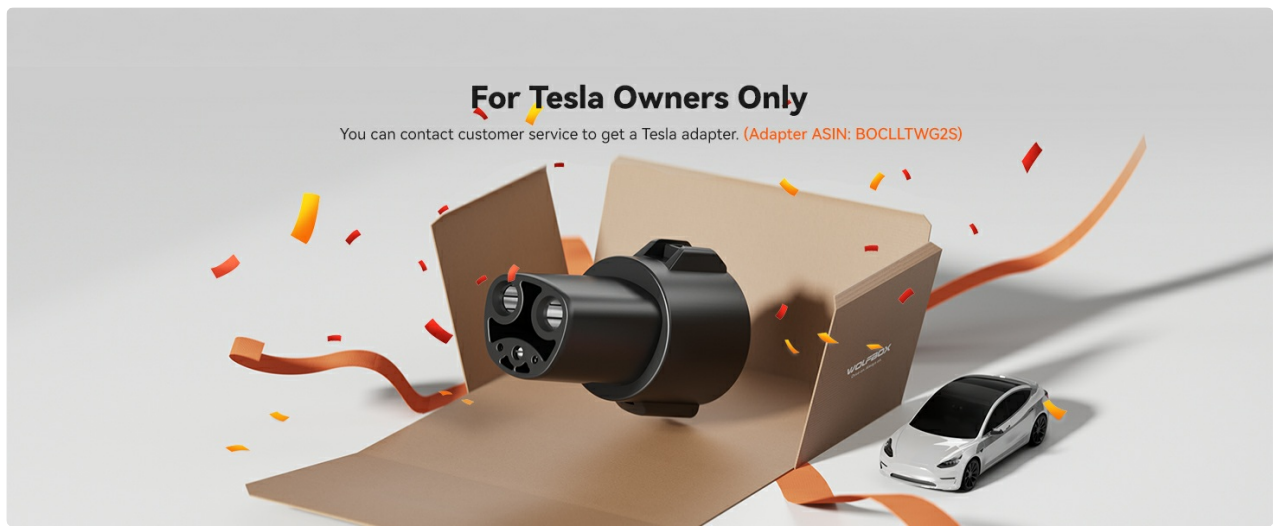


Image 9.2: A visual representation of the WOLFBOX EV Charger's dimensions, including width, height, and depth.

10. WARRANTY & SUPPORT

WOLFBOX is committed to providing high-quality products and excellent customer service.

10.1 Warranty Information

Your WOLFBOX EV Charger comes with a **36-month warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact WOLFBOX customer support:

- **24/7 Customer Support:** Dedicated assistance is available anytime you need it.
- **Lifetime Assistance:** WOLFBOX is committed to supporting you for the life of your product.

Refer to the official WOLFBOX website or your purchase documentation for specific contact methods (email, phone, etc.).

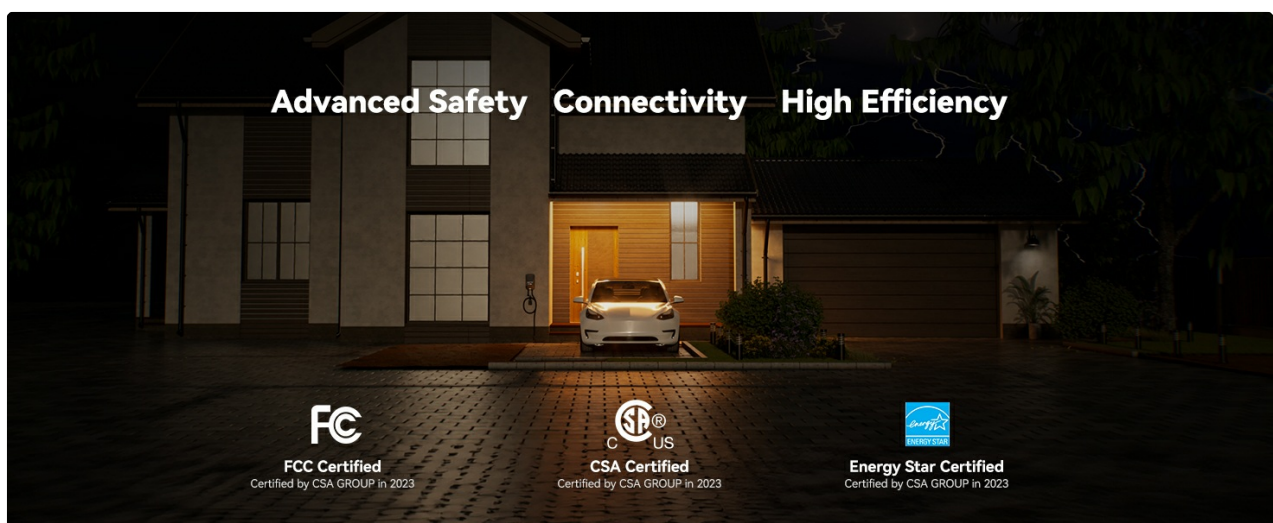
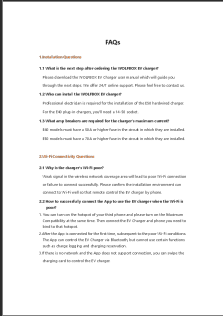





Image 10.1: Highlighting WOLFBOX's commitment to customer support, including 24/7 assistance, lifetime product support, and OTA updates for continued reliability.

Related Documents

	<p>WOLFBOX EV Charger FAQs and Troubleshooting</p> <p>Frequently asked questions and troubleshooting guide for the WOLFBOX EV Charger, covering installation, Wi-Fi connectivity, app usage, and charging performance.</p>
	<p>WOLFBOX EV Charger User Manual: Installation, Operation, and App Guide</p> <p>Comprehensive user manual for the WOLFBOX EV Charger, covering installation, operation, app usage, troubleshooting, and after-sales support. Includes safety warnings and product specifications.</p>
	<p>Wolfbox EV App User Guide: Download, Setup, and Usage</p> <p>Comprehensive guide to downloading, installing, and using the Wolfbox EV mobile application for managing your EV charger, including setup, charging modes, data tracking, and device sharing.</p>
	<p>WOLFBOX X3 2-Channel Dash Cam User Manual</p> <p>This user manual provides comprehensive instructions and specifications for the WOLFBOX X3 2-channel dash cam, covering installation, features, troubleshooting, and app connectivity.</p>



[WOLFBOX EV Charger User Manual: Installation, Operation, and App Guide](#)

Comprehensive user manual for the WOLFBOX EV Charger, covering installation, operation, app usage, troubleshooting, and after-sales support. Includes safety warnings and product specifications.

lang:en score:29 filesize: 2.42 M page_count: 24 document date: 2023-11-28



[\[pdf\] User Manual Installation Guide Instructions Warranty](#)

User Manual WOLFBOX Level 2 EV Charger 50Amp 240V Smart Home with APP Control Wi Fi Enabled EVSE 25FT Cable RFID Card Indoor Outdoor Hardwired Charging Station for Electric Car Gray Automotive B17UHI9d5fL m media amazon images I |||

V05 User Manual www.wolfbox.com The information in this manual is subject to change without notice. ... blue Solid blue Flowing blue Solid green Solid red NEMA Plug-in Version E40 Hardwired Version **E50** 2 INSTALLATION GUIDE REFERENCE IMPORTANT Please follow all applicable codes and regulations a...

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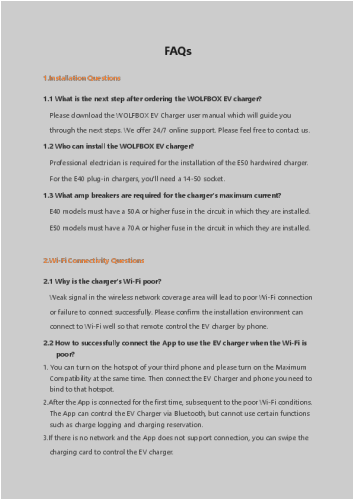


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V06 User Manual www.wolfbox.com The information in this manual is subject to change without notice. ... uits of the E40 model. A 60A or higher current fuse is recommended for installation circuits of the **E50** 48A model. A 70A or higher current fuse is recommended for installation circuits of the **E50** mod...

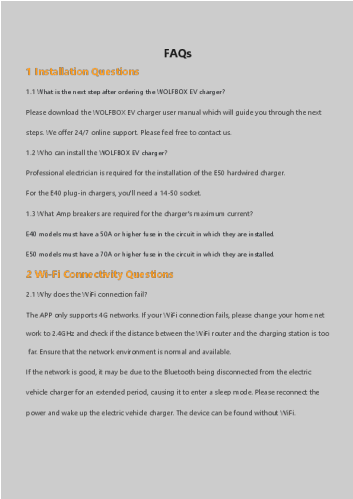
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[WOLFBOX EV Charger FAQs and Troubleshooting](#)

Frequently asked questions and troubleshooting guide for the WOLFBOX EV Charger, covering installation, Wi-Fi connectivity, app usage, and charging performance.

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[\[pdf\] User Manual Installation Guide Frequently Asked Questions Guide](#)

FAQ WOLFBOX Level 2 EV Charger 50Amp 240V Smart Home with APP Control Wi Fi Enabled EVSE 25FT Cable RFID Card Indoor Outdoor Hardwired Charging Station for Electric Car Gray Automotive 61Qf5cJsYtL m media amazon images I |||

1 Installation Questions FAQs 1.1 What is the next step after ordering the WOLFBOX EV charger Pl ... n install the WOLFBOX EV charger Professional electrician is required for the installation of the **E50** hardwired charger. For the E40 plug-in chargers, you ll need a 14-50 socket. 1.3 What Amp brea...

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