

## EVoCharge EVC50014001

# EVoCharge Home 50 Level 2 EV Charger NACS Instruction Manual

Model: EVC50014001

## 1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your EVoCharge Home 50 Level 2 EV Charger NACS. Please read this manual thoroughly before installation and use, and retain it for future reference. This charging station is designed for residential use to charge electric vehicles equipped with a NACS connector, including Tesla vehicles.

## 2. SAFETY INFORMATION

### **WARNING: Risk of Electric Shock. Improper installation or use can result in serious injury or death.**

- Installation must be performed by a qualified, licensed electrician in accordance with all local and national electrical codes and regulations.
- Do not attempt to open, disassemble, repair, or modify the charging station. Contact EVoCharge support for service.
- Ensure the charging station is properly grounded.
- Do not use the charging station if the enclosure or charging cable is damaged.
- Keep children away from the charging station during operation.
- Avoid submerging the charging station or charging cable in water.
- Operate the charging station within its specified environmental conditions.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- EVoCharge Home 50 Level 2 EV Charging Station
- 25-foot Charging Cable with NACS Connector
- Remote Holster
- Mounting Bracket

- Installation Guide (this document)

## 4. PRODUCT FEATURES

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- **Level 2 EV Charging:** Provides up to 45 miles of range per hour charged, significantly reducing charging times compared to Level 1 chargers.
- **NACS Connector:** Compatible with Tesla vehicles and other electric vehicles utilizing the NACS charging standard.
- **Adjustable Amperage:** User-selectable amperage settings from 16A to 50A, allowing optimization for your home's electrical capacity.
- **Smart Charging Capabilities:** Manage charging schedules, monitor charging data, and share access via the EVoCharge mobile app and desktop portal.
- **Hardwired Installation:** Designed for a secure and permanent 240V hardwired connection.
- **Durable Design:** NEMA 4 weatherproof rating ensures suitability for both indoor and outdoor installation.
- **UL Listed:** Certified for safety and quality standards.

## 5. SETUP AND INSTALLATION

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The EVoCharge Home 50 Level 2 EV Charger requires a 240V hardwired electrical connection. Due to the electrical requirements and safety considerations, **installation must be performed by a qualified, licensed electrician.**

### 5.1 Pre-Installation Considerations

- **Location:** Choose a suitable location near your parking area, ensuring the 25-foot cable can comfortably reach your vehicle's charging port. Consider indoor or outdoor placement based on your needs; the unit is NEMA 4 rated.
- **Electrical Service:** Confirm your home's electrical panel can support a dedicated 240V circuit with appropriate amperage (up to 50A).
- **Mounting Surface:** The mounting surface must be capable of supporting the weight of the charging station and withstand the forces of cable management.

### 5.2 Installation Steps (for Licensed Electrician)

1. **Power Disconnection:** Ensure all power to the installation area is disconnected at the main breaker panel.
2. **Mounting:** Securely attach the mounting bracket to the chosen wall surface using appropriate hardware.
3. **Wiring:** Connect the 240V electrical supply to the charging station's internal terminals as per the wiring diagram provided in the detailed installation guide (included in the box). Ensure proper grounding.
4. **Amperage Setting:** Adjust the internal DIP switches to set the desired maximum charging amperage (16A to 50A) according to the circuit breaker rating and local codes.
5. **Enclosure Closure:** Securely close the charging station's enclosure.
6. **Power Restoration:** Restore power at the main breaker panel.
7. **Functionality Test:** Verify the LED status indicator lights and perform an initial charge test.



## 240V hardwired installation

Image: A licensed electrician performing the 240V hardwired installation of the EVoCharge Home 50 charger.



## Adjustable Amperage 16 to 50A

Simplify installation and maximize charging speeds from your home's existing electrical

Image: The EVoCharge Home 50 charger installed in a residential garage, demonstrating its adjustable amperage feature.

## 6. OPERATING INSTRUCTIONS

The EVoCharge Home 50 offers both simple plug-and-charge functionality and advanced smart charging features via the mobile app.

### 6.1 Basic Charging

1. Ensure the charging station is powered on.
2. Plug the NACS connector firmly into your electric vehicle's charging port.
3. The charging process will typically begin automatically. Monitor your vehicle's dashboard or the charger's LED indicator for charging status.
4. To stop charging, safely disconnect the connector from your vehicle.

### 6.2 Smart Charging with the EVoCharge App

Download the EVoCharge mobile app from the App Store or Google Play to unlock advanced features.



## Smart Charging Simplified

Download on the  
**App Store**

GET IT ON  
**Google Play**

Image: The EVoCharge mobile app and desktop portal interface, illustrating smart charging management.

- **App Pairing:** Follow the in-app instructions to pair your EVoCharge Home 50 charger with your smartphone.
- **Schedule Charging:** Set preferred charging times to take advantage of off-peak electricity rates or to ensure your vehicle is ready by a specific time.
- **Monitor Charging:** View real-time charging status, energy consumption, and estimated range added.
- **Access Management:** Share access to your charger with other users if desired.
- **Firmware Updates:** The app facilitates over-the-air firmware updates to ensure your charger has the latest features and improvements.



Image: The EVoCharge Home 50 charger, its NACS connector, and the accompanying mobile application interface.

Compatible with Tesla & any EV using the NACS connector.

**Up to 45 miles of range per hour**



Image: The EVoCharge Home 50 charger installed, demonstrating its compatibility with Tesla vehicles and charging speed.

## 7. MAINTENANCE

The EVoCharge Home 50 charger is designed for minimal maintenance. Regular inspection and cleaning will help ensure optimal performance and longevity.

- **Cleaning:** Periodically wipe the exterior of the charging station and the charging cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the unit is powered off before cleaning.
- **Cable Inspection:** Regularly inspect the charging cable and connector for any signs of wear, cuts, fraying, or damage. If any damage is observed, discontinue use immediately and contact EVoCharge support.
- **Connector Care:** Keep the NACS connector clean and free of debris. Ensure the protective cap is used when the connector is not in use.
- **Holster Use:** Always return the charging connector to its holster after use to protect it from environmental elements and accidental damage.

## 8. TROUBLESHOOTING

If you encounter issues with your EVoCharge Home 50 charger, refer to the following common troubleshooting steps:

- **No Power/LED Off:**

- Check the circuit breaker for the charging station at your main electrical panel. Reset if tripped.
- Ensure the charging station is properly hardwired and all connections are secure (this should be checked by a qualified electrician).

- **Charging Not Starting:**

- Ensure the NACS connector is fully inserted into the vehicle's charging port.
- Check your vehicle's charging settings; some vehicles have scheduled charging enabled.
- Verify that the EVoCharge app does not have a charging schedule or delay active.
- Inspect the charging cable and connector for any visible damage.

- **Slow Charging:**

- Confirm the amperage setting on the charger is appropriate for your electrical circuit and vehicle.
- Check your vehicle's charging settings; some vehicles allow adjustment of charging current.

- **App Connectivity Issues:**

- Ensure your home Wi-Fi network is active and the charger is within range.
- Restart your Wi-Fi router and the charging station (by cycling its circuit breaker).
- Ensure your EVoCharge app is updated to the latest version.

For persistent issues or problems not covered here, please contact EVoCharge customer support.

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## 9. SPECIFICATIONS

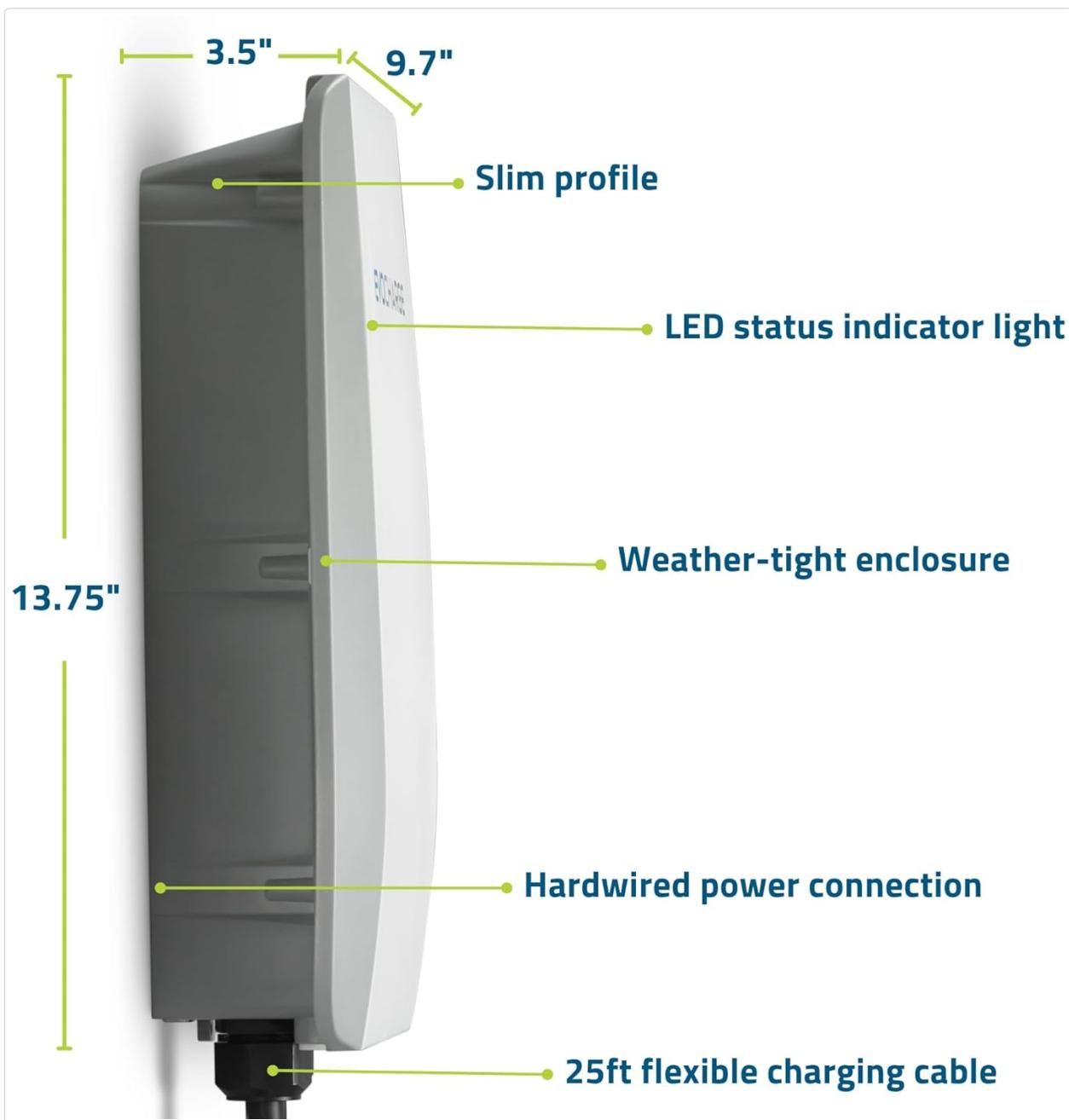


Image: Detailed side view of the EVoCharge Home 50 charger with key features and dimensions.

Specification	Detail
Model Number	EVC50014001
Input Voltage	240 Volts (AC)
Current Rating	Adjustable 16-50 Amps
Connector Type	NACS (Tesla Compatible)
Cable Length	25 feet
Installation Type	Hardwired
Enclosure Rating	NEMA 4 (Indoor/Outdoor)
Product Dimensions (H x W x D)	13.75 x 9.7 x 3.5 inches
Item Weight	11.68 pounds

Certifications	UL Listed
Connectivity	Wi-Fi (for smart features)

## 10. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official EVoCharge website. If you require technical assistance, troubleshooting beyond this manual, or have questions regarding your EVoCharge Home 50 charger, please contact EVoCharge customer support through their official channels.

**Manufacturer:** EVoCharge

**Website:** [Visit the EVoCharge Store](#)

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## Related Documents

 <p><b>Product Manual</b> EVSE 50   Home 50 Level 2 Electric Vehicle Charging Station</p>	<p><a href="#">EvoCharge EVSE 50   Home 50 Product Manual</a></p> <p>This manual provides detailed instructions for the EvoCharge EVSE 50 and Home 50 Level 2 Electric Vehicle Charging Station, covering installation, operation, connectivity, troubleshooting, and specifications. Learn how to safely and efficiently charge your electric vehicle at home.</p>
 <p><b>EvoCharge EVSE Indicator Light Status Reference</b></p>	<p>Detailed reference guide for EvoCharge EVSE chargers, explaining the meaning of different LED indicator light states and colors for models like EVSE 50 and Home 50.</p>
 <p><b>EvoCharge App Key Features and Usage Guide</b></p>	<p>Explore the comprehensive features of the EvoCharge mobile application, designed to enhance your electric vehicle charging experience. This guide covers app download, account setup, charger management, scheduling, remote control, charging history, EV garage customization, custom charging parameters, utility pricing integration, and charger sharing capabilities.</p>
 <p><b>EvoCharge App: Key Features and User Guide</b></p>	<p>A comprehensive overview of the EvoCharge mobile application, detailing its features for managing EV charging, including app setup, scheduling, remote control, vehicle management, utility pricing, and charger sharing.</p>

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## [pdf] Specifications

EvoCharge HOME EVC50012001 ENERGY STAR Certified Electric Vehicle Chargers AC Output v1 2 certification information for Product ID 3554317 Specification Version 1 EvoChargeHOME EVC50012001

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ENERGY STAR CERTIFIED Electric Vehicle Chargers AC-Output EvoCharge - HOME : EVC50012001 Specifi ... Canada ENERGY STAR Certified: Yes Additional Model Information ,EVC50011001,; ,EVC50013001,; ,**EVC50014001**, Captured On: 12/04/2024 ...

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