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EVoCharge EVC50012001

EvoCharge Home 50 Level 2 EV Charger User Manual

MODEL: EVC50012001

Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your EvoCharge Home 50 Level 2 EV Charger. Please read this manual thoroughly before installation and use, and retain it for future reference. The EvoCharge Home 50 is a hardwired 50 Amp Level 2 EV charging station designed for electric vehicles utilizing the J1772 connector type, offering up to 45 miles of range per hour charged.

Safety Information

WARNING: Risk of electric shock. Improper installation or use can result in serious injury or death. All installation and servicing must be performed by qualified, licensed personnel in accordance with all applicable electrical codes and regulations.

- Do not attempt to open, repair, or modify the charger.
- Ensure the power supply is disconnected before any installation or maintenance.
- This device is designed for permanent hardwired installation only.
- Do not use if the charging cable or connector is damaged.
- Keep children away from the charging station during operation.
- The charger is rated NEMA 4 for indoor or outdoor use, but avoid direct exposure to extreme weather conditions if possible.

Package Contents

Verify that all items are present in the package:

- EvoCharge Home 50 Charging Station
- Integrated 25-foot Charging Cable with J1772 Connector
- Remote Holster for J1772 Connector
- Mounting Bracket
- Installation Guide (this document)

Product Overview

The EvoCharge Home 50 features a slim profile and a weather-tight enclosure, suitable for various environments. Key components include:

- **LED Status Indicator Light:** Provides visual feedback on the charger's operational status.
- **Hardwired Power Connection:** For permanent electrical installation.
- **25ft Flexible Charging Cable:** Offers ample reach for vehicle parking.



Figure 1: Side view of the EvoCharge Home 50 EV Charger, illustrating its slim profile, LED status indicator, weather-tight enclosure, hardwired power connection, and 25-foot flexible charging cable, along with its dimensions (13.75 inches height, 9.7 inches width, 3.5 inches depth).

Setup and Installation

The EvoCharge Home 50 is designed for hardwired installation. It is crucial that installation is performed by a qualified, licensed electrician to ensure safety and compliance with local electrical codes.

1. **Site Selection:** Choose a suitable location for the charger, considering proximity to your EV parking spot and electrical panel. The NEMA 4 rating allows for both indoor and outdoor installation.
2. **Power Requirements:** The charger requires a 240V dedicated circuit. The amperage is adjustable from 16A to 50A to match your home's electrical capacity. Consult with your electrician to determine the optimal amperage setting for your installation.
3. **Mounting:** Securely mount the charging station using the provided mounting bracket. Ensure the mounting surface can support the weight of the unit.
4. **Electrical Connection:** The electrician will hardwire the charger to your electrical panel. This involves connecting the appropriate wiring to the charger's internal terminals.
5. **Initial Power-Up:** After installation, the electrician will power up the unit and verify proper functionality.



Figure 2: A licensed electrician performing the 240V hardwired installation of the EvoCharge Home 50 EV Charger, highlighting the importance of professional setup.



Figure 3: The EvoCharge Home 50 EV Charger installed, demonstrating its adjustable amperage feature (16 to 50A) for optimizing charging speed based on home electrical power.

Operating Instructions

The EvoCharge Home 50 offers smart charging capabilities through its mobile app and desktop portal.

1. Connecting to Your EV:

- Remove the J1772 connector from its holster.
- Insert the connector firmly into your electric vehicle's charging port.
- The charger's LED indicator will change to show that charging has begun or is ready to begin.

2. Using the EvoCharge App:

Download the EvoCharge mobile app from the App Store or Google Play. The app allows you to:

- Schedule charging sessions to take advantage of off-peak electricity rates.

- Monitor real-time charging status and view charging data.
- Share access to your charging station.
- Manage amperage settings (if applicable and configured during installation).

3. Stopping a Charge:

- You can stop charging via the EvoCharge app or by disconnecting the J1772 connector from your vehicle.
- Always return the connector to its holster when not in use to protect it from damage and environmental elements.



Figure 4: The EvoCharge Home 50 EV Charger shown with a smartphone displaying the EvoCharge mobile application, illustrating the smart charging capabilities and user interface.



Figure 5: Screenshots of the EvoCharge mobile application and desktop portal, demonstrating features for scheduling, data viewing, and overall smart charging management.

Maintenance

The EvoCharge Home 50 is designed for minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Periodically wipe the exterior of the charger with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the unit is powered off before cleaning.
- **Cable and Connector Inspection:** Regularly inspect the charging cable and J1772 connector for any signs of wear, damage, or fraying. If damage is observed, discontinue use immediately and contact customer support.
- **Holster Use:** Always store the J1772 connector in its holster when not in use to protect it from dirt, moisture, and physical damage.

Troubleshooting

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

Problem	Possible Cause	Solution
Charger not powering on	No power from electrical panel; circuit breaker tripped.	Check your home's circuit breaker. If tripped, reset it. If the problem persists, contact a licensed electrician.
EV not charging	Connector not fully inserted; vehicle charging schedule active; charger fault.	Ensure the J1772 connector is securely plugged into the vehicle. Check the EvoCharge app for active charging schedules. Try rebooting the charger by cycling its circuit breaker.
App connectivity issues	Poor Wi-Fi signal; app not updated; temporary server issue.	Ensure your charger is within Wi-Fi range. Restart your router and the charger (by cycling the breaker). Update the EvoCharge app to the latest version.
Slow charging speed	Amperage setting too low; vehicle limitation.	Verify the amperage setting in the EvoCharge app or consult your electrician if the setting needs adjustment. Confirm your vehicle's maximum charging rate.

If these steps do not resolve the issue, please contact EvoCharge customer support for further assistance.

Specifications

Feature	Detail
Model Number	EVC50012001
Input Voltage	240 Volts AC
Amperage	Adjustable 16A to 50A
Connector Type	J1772
Cable Length	25 feet
Dimensions (H x W x D)	13.75 x 9.7 x 3.5 inches
Item Weight	11.68 pounds
Enclosure Rating	NEMA 4 (Indoor/Outdoor)
Certifications	UL Listed, Energy Star, FCC
Manufacturer	EvoCharge




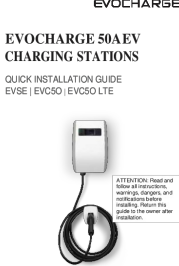
Warranty and Support


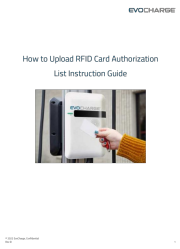
EvoCharge products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EvoCharge website. For technical support, troubleshooting assistance, or warranty claims, please contact EvoCharge customer service:

- **Website:** www.evocloud.com
- **Contact Information:** Refer to the EvoCharge website for the most current contact details, including phone numbers and email support.

When contacting support, please have your product model number (EVC50012001) and purchase date available.

Related Documents - EVC50012001

 <p>EVOCHARGE Product Manual EVSE 50 Home 50 Level 2 Electric Vehicle Charging Station</p>	<p>EvoCharge EVSE 50 Home 50 Product Manual</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>EVOCHARGE EVOCHARGE 50A EV CHARGING STATIONS QUICK INSTALLATION GUIDE EVSE 50 HOME 50</p>	<p>EvoCharge 50A EV Charging Station Quick Installation Guide</p> <p>Step-by-step guide for installing the EvoCharge 50A EVSE and Home 50 electric vehicle charging stations. Includes safety information, mounting, wiring, and setup instructions.</p>
 <p>EVOCHARGE BORNE DE RECHARGE EVSE 50A EVOCHARGE® GUIDE D'INSTALLATION RAPIDE EVSE 50 RÉSIDUEL 50</p>	<p>EVOCHARGE EVSE 50A Electric Vehicle Charging Station Quick Installation Guide</p> <p>Quick installation guide for the EVOCHARGE EVSE 50A electric vehicle charging station, covering safety instructions, mounting, wiring, and specifications.</p>
 <p>EVOCHARGE EVOCHARGE 50AEV CHARGING STATIONS QUICK INSTALLATION GUIDE EVSE EVC50 EVC50 LTE</p>	<p>EvoCharge 50AEV Charging Stations Quick Installation Guide EVSE, EVC50, EVC50 LTE</p> <p>Quick installation guide for EvoCharge 50AEV EVSE, EVC50, and EVC50 LTE charging stations. Includes safety information, preparation, mounting, wiring, and specifications for electric vehicle charging.</p>

	<h3>EvoCharge App Key Features and Usage Guide</h3> <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>
	<h3>EvoCharge: How to Upload RFID Card Authorization List</h3> <p>Instruction guide for uploading RFID card authorization lists to EvoCharge EVSEs. Learn how to connect, configure settings, and manage access for charging stations.</p>


Documents - EVoCharge – EVC50012001

ENERGY STAR CERTIFIED Electric Vehicle Chargers (AC-Output)	
EvoCharge - HOME : EVC50012001	
Specifications	
Brand Name:	EvoCharge
Model Name:	HOME
Model Number:	EVC50012001
ENERGY STAR Unique ID:	3554317
ENERGY STAR Partner:	EvoCharge Inc.
Product Type:	Level 2
Input Voltage (V):	240.0
Max Nema15 Plug Current (A):	30
Maximum Output Power (kW):	12.0
Number of Outlets:	1
Maximum Output Cord Length (ft.):	25
Output Cord Gauge (AWG):	8
Automatic Brightness Control (ABC) Capable:	No
Connected Capable:	No
Network Connection Types Available:	Wi-Fi or Digital Ethernet
Product Features:	Model is portable
Auxiliary Product Features:	Reversible Grade Motor
15 A Operation Mode Test: Total Loss (watts):	16.09
30 A Operation Mode Test: Total Loss (watts):	51.05
4 A Operation Mode Test: Total Loss (watts):	5.29
Full Current Operation Mode Test: Total Loss (watts):	131.63
Idle Mode Input Power (watts):	4.49
Idle Mode Power Factor:	0.98
Idle Mode Total Allowance (watts):	26.63
No Vehicle Mode Input Power (watts):	2.2
No Vehicle Mode Power Factor:	0.98
No Vehicle Mode Total Allowance (watts):	6.9
Partial On Mode Input Power (watts):	2.15
Partial On Mode Power Factor:	0.99
Partial On Mode Total Allowance (watts):	6.6
Date Certified:	2024-07-15
Date Available on Market:	2024-07-15
Markets:	United States, Canada

[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 2024 12 04 energystar gov productfinder product certified evse ac output details export |||

ENERGY STAR CERTIFIED Electric Vehicle Chargers AC-Output EvoCharge - HOME : **EVC50012001** Specifications Brand Name: EvoCharge Model Name: HOME Model Number: **EVC50012001** ENERGY STAR Unique ID: 3554317 ENERGY STAR Partner: EvoCharge Inc. Product Type: Level 2 Input Voltage V : 240.0... lang:en score:37 filesize: 42.96 K page_count: 2 document date: 2024-12-04

muRata MANUFACTURING CO., LTD.	
Declaration Letter of Change in ID	
August 19, 2024	
Federal Communications Commission Equipment Authorization Division Application Processing Branch 7435 Oakland Mills Road Columbia, MD 21046	
We, Murata Manufacturing Co., Ltd. agree to give the permission to file a Change in ID for the following FCC ID: Model No.: LBEE5HY1MW FCC ID: VP1LBEE5HY1MW Approval Date: 5/24/2018 and 5/25/2018 Brand Name: Murata Manufacturing Co., Ltd.	
For a new FCC ID application as below: Company Name: EVOCHARGE INC. Model No.: EVC50012001 FCC ID: 2BEYO-HEVSE50 Brand Name: EVOCHARGE	
There is no change in the design, circuitry, or construction with the aforementioned communication module, and the documents on file with FCC from the original certification remain unchanged and continue to be valid.	
The new application has its own brand name and FCC ID number. Murata accepts for FCC officials to use the documents on file from the existing certification in processing of applicant's FCC ID.	
Sincerely,  Koji Hayashikawa Senior Manager Murata Manufacturing Co., Ltd.	

[pdf] Declaration of Conformity

Declaration Letter of Change in FCC ID Original applicant EVOCHARGE INC HEVSE50 2BEYO 2BEYOHEVSE50 hevse50

Declaration Letter of Change in ID Federal Communications Commission Equipment Authorization Divisi ... ufacturing Co., Ltd. For a new FCC ID application as below. Company Name: EVOCHARGE INC. Model No.: **EVC50012001** FCC ID: 2BEYO-HEVSE50 Brand Name: EVOCHARGE There is no change in the design, circuitry,... lang:en score:29 filesize: 96.84 K page_count: 1 document date: 2024-08-19