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> SEGUMA Level 2 EV Charger (Model EV-ACS4003U) User Manual

## SEGUMA EV-ACS4003U

# SEGUMA Level 2 EV Charger (Model EV-ACS4003U) User Manual

Your Guide to Safe and Efficient Electric Vehicle Charging

## 1. INTRODUCTION

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Thank you for choosing the SEGUMA Level 2 EV Charger. This manual provides essential information for the safe and effective installation, operation, and maintenance of your electric vehicle charging equipment. Please read this manual thoroughly before using the product and retain it for future reference.

## 2. SAFETY INFORMATION

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Always adhere to the following safety precautions to prevent injury or damage to the product and your vehicle:

- **Electrical Safety:** Ensure the NEMA 14-50 outlet is properly installed by a qualified electrician and meets all local electrical codes. Do not use extension cords or adapters other than those specifically designed for EV charging and approved for use with this product.
- **Grounding:** The charger must be properly grounded to prevent electric shock. Do not modify the plug or use an ungrounded outlet.
- **Environmental Conditions:** The charger is rated IP66 for water and dust resistance, allowing for outdoor use. However, avoid submerging the unit in water or exposing it to extreme weather conditions beyond its operating range (-22°F to +122°F).
- **Physical Damage:** Do not use the charger if the cable, plug, or control box is damaged. Contact customer support immediately. Avoid driving over the cable or subjecting it to excessive force.
- **Children and Pets:** Keep the charger and cables out of reach of children and pets during operation and storage.

## 10 Intelligent Safety Protection



Figure 2.1: The SEGUMA EV Charger incorporates 10 intelligent safety protections, including leakage, grounding, overvoltage, undervoltage, overcurrent, overcharging, overheating, short circuit, lightning protection, and IP66 waterproofing.

### 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x SEGUMA 40Amp Level 2 EV Charger (with 25FT cable and NEMA 14-50 plug)
- 1 x Charger Cable Holder
- 1 x Control Box Holder
- 1 x Carry Bag
- 1 x User Manual (this document)



Figure 3.1: Contents of the SEGUMA EV Charger package.

## 4. PRODUCT OVERVIEW

### 4.1 Key Features

- **High-Speed Charging:** Delivers up to 9.6kW (240V, 40A) for rapid charging.
- **Adjustable Current:** User-selectable current settings (10A/16A/20A/24A/32A/40A) to match circuit capacity.
- **Timing Delay Function:** Schedule charging sessions up to 12 hours in advance.
- **Intelligent Display:** 2.4-inch TFT screen shows real-time charging data (amperage, voltage, power, kWh, charging time, status).
- **LED Indicators:** Clear LED lights on the control box indicate charging status and fault conditions.
- **Universal Compatibility:** Standard J1772 connector works with most electric vehicles (Tesla requires a J1772 to NACS adapter).
- **Robust Safety:** Built-in chipset provides multi-layered protection against electrical hazards.
- **Durable Design:** IP66 waterproof and dustproof rating, suitable for various weather conditions.

- **Portable & Convenient:** 25-foot cable for flexible placement, includes a carry bag for transport.

# FAST CHARGING



40Amp Level 2 EV  
Charger Save Your Time

8X



40A  
MAX  
CURRENT

CHARGING

240v  
MAX  
VOLTAGE

Figure 4.1: The charger offers significantly faster charging compared to standard Level 1 chargers.

## 4.2 Components

- **Control Box:** Houses the intelligent display, control buttons, and safety circuitry.
- **J1772 Connector:** The vehicle-side plug, compatible with most EVs. Features a lock design and durable, flame-retardant materials.
- **NEMA 14-50 Plug:** The wall-side plug for connecting to a 240V NEMA 14-50 outlet.
- **Charging Cable:** A 25-foot UL-listed copper cable with TPE insulation, designed for durability and flexibility.

Compatible with Major EV Brands <span style="color: green;">✔</span>				Not Compatible with Specific Brands <span style="color: red;">✘</span>	
Brand	Models	Brand	Models	Brand	Models
<b>Audi</b>	e-tron, e-tron Sportback, e-tron Q5	<b>Lucid Motors</b>	Air	<b>Bollinger Motors</b>	B1, B2
<b>BMW</b>	5 Series 530e, X5 xDrive40e, i7X, i8, iX	<b>Mazda</b>	MX-30		
<b>Cadillac</b>	Lyriq	<b>Mercedes-Benz</b>	B250e, EQA 250, EQB, EQS, GLC 350e		
<b>Chevrolet</b>	Bolt EV, Bolt EUV, Volt	<b>Mini</b>	Cooper Electric Hardtop	<b>Canoo</b>	Lifestyle Vehicle, Pickup Truck
<b>Fisker</b>	Ocean	<b>Nissan</b>	Leaf, Leaf S, Leaf S PLUS		
<b>Ford</b>	C-Max Energi, Fusion Energi, Mustang Mach-E, F-150 Lightning, Escape, E-Transit	<b>Polestar</b>	2	<b>BMW</b>	i3
<b>GMC</b>	Hummer EV Pickup, Hummer EV SUV	<b>Porsche</b>	Cayenne S E-Hybrid, Taycan		
<b>Hyundai</b>	Kona, IONIQ, IONIQ 5, IONIQ 6	<b>Rivian</b>	R1T, R1S, EDV700		
<b>Jaguar</b>	I-Pace	<b>Toyota</b>	BZ4X, Mirai, Prius Prime, RAV4 Prime	<b>Tesla</b>	Model 3, Model Y, Model X, Model S, Cybertruck
<b>Kia</b>	EV6, Niro EV, Niro PHEV	<b>Volvo</b>	C40, XC40, XC60 T8, XC90		
<b>Lordstown Motors</b>	Endurance				

Figure 4.2: Features of the J1772 charging connector.



Figure 4.3: The NEMA 14-50 plug connects the charger to your home's 240V outlet.

### 4.3 Display and LED Indicators

The 2.4-inch TFT screen provides detailed charging information. The LED indicator on the control box offers a quick visual status:

Color	Status	Description
Green	Flashing	Charging
Green	Solid on	Fully charged
Blue	Flashing	EV Connected
Blue	Solid on	Standing by
Red	Flashing	Ground fault
Red	Solid on	General fault

## 2.4" TFT Screen and LED Lights Display



Figure 4.4: The TFT display and LED indicator status guide.

## 5. SETUP

### 5.1 Wall Mounting (Optional)

The charger can be wall-mounted for convenience. Use the provided control box holder and charger cable holder.

- 1. Mark Position:** Choose a suitable location near your NEMA 14-50 outlet, ensuring the cable can comfortably reach your vehicle. Use the mounting template (if provided) or the holders themselves to mark drilling points.
- 2. Install Anchors:** Drill holes and insert wall anchors appropriate for your wall type.
- 3. Fix Holders:** Secure the control box holder and charger cable holder to the wall using the provided screws.
- 4. Place Charger:** Mount the control box onto its holder and coil the cable onto the cable holder.



Figure 5.1: Wall mounting steps for the charger and cable holders.

## 5.2 Outlet Compatibility

This charger is designed for use with a NEMA 14-50 outlet. Ensure your electrical system supports this outlet type. If you have a different outlet, an appropriate adapter may be required, but it is recommended to consult a qualified electrician for proper installation.

# Check Your Home Outlet Type



Figure 5.2: Compatible NEMA 14-50 outlet type.

## 6. OPERATING INSTRUCTIONS

### 6.1 Basic Charging Steps

1. **Plug into Outlet:** Insert the NEMA 14-50 plug firmly into the compatible wall outlet. The charger will power on, and the LED indicator will show a blue solid light (Standing by).
2. **Connect to Vehicle:** Open your vehicle's charging port and firmly insert the J1772 connector. The LED indicator will flash blue (EV Connected).
3. **Start Charging:** The charger will automatically begin charging, and the LED indicator will flash green

(Charging). The TFT screen will display real-time charging data.

4. **Charging Complete:** Once your vehicle is fully charged, the charger will automatically stop, and the LED indicator will turn solid green (Fully charged).
5. **Disconnect:** Disconnect the J1772 connector from your vehicle, then unplug the NEMA 14-50 plug from the wall outlet.

## 6.2 Adjusting Charging Current

To adjust the charging current, press the 'A' button on the control box. Each press cycles through available current options (10A, 16A, 20A, 24A, 32A, 40A). Select the appropriate current based on your vehicle's requirements and your home's electrical circuit capacity.



Figure 6.1: Adjusting current and setting delay time on the control box.

## 6.3 Setting Timing Delay

To set a charging delay, press the clock button on the control box. You can set a delay from 1 to 12 hours. This feature allows you to schedule charging during off-peak electricity hours to reduce costs.

## 7. MAINTENANCE

- **Cleaning:** Wipe the control box and cables with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the charger is unplugged before cleaning.
- **Inspection:** Regularly inspect the cable, plug, and connector for any signs of wear, damage, or corrosion. If any damage is found, discontinue use and contact customer support.
- **Storage:** When not in use, store the charger in its carry bag in a dry, clean place. Avoid coiling the cable too tightly.

## 8. TROUBLESHOOTING

Refer to the LED indicator status (Figure 4.4) for initial diagnosis. If the issue persists, try the following:

- **Charger Not Powering On:** Ensure the NEMA 14-50 plug is fully inserted into a live outlet. Check your home's circuit breaker.
- **Charging Not Starting:** Verify the J1772 connector is securely plugged into the vehicle's charging port. Check the vehicle's charging settings. Ensure the current setting on the charger is appropriate.
- **Ground Fault (Red Flashing LED):** Unplug the charger from the wall and the vehicle. Wait a few minutes, then plug it back in. If the fault persists, there may be an issue with your electrical system; consult an electrician.
- **General Fault (Red Solid LED):** Disconnect the charger from both the vehicle and the power outlet. Wait for 5 minutes, then reconnect. If the fault remains, contact customer support.
- **Slow Charging:** Check the current setting on the charger. Ensure it is set to the desired amperage. Verify your vehicle's charging capacity.

## 9. SPECIFICATIONS

Specification	Value
Model	EV-ACS4003U
Input Voltage	240 Volts
Output Voltage	240 Volts
Max Current	40 Ampere
Max Power	9.6 kW
Cable Length	25 Feet
Plug Type	NEMA 14-50
Connector Type	J1772
Waterproof Rating	IP66
Operating Temperature	-22°F to +122°F (-30°C to +50°C)
Item Weight	11.36 pounds
Certifications	UL, FCC

## 10. WARRANTY AND SUPPORT

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SEGUMA provides a limited warranty for this product. Please refer to the warranty card included in your package or visit the official SEGUMA website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact SEGUMA customer service through the contact information provided on the product packaging or the official website.