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› SEGUMA Level 1/2 EV Charger (Model EV-ACS1604U) Instruction Manual

## SEGUMA EV-ACS1604U

# SEGUMA Level 1/2 EV Charger (Model EV-ACS1604U) Instruction Manual

Brand: SEGUMA | Model: EV-ACS1604U

## 1. INTRODUCTION AND OVERVIEW

The SEGUMA Level 1/2 EV Charger is designed to provide flexible and efficient charging for your electric vehicle. This portable charging station offers both Level 1 (120V, 12A) and Level 2 (240V, 16A) charging capabilities, making it suitable for various power outlets. With its 25-foot cable and intelligent safety features, it ensures a convenient and secure charging experience for J1772-compatible electric vehicles.



Image: The SEGUMA Level 1/2 EV Charger in use, demonstrating its connection to an electric vehicle for efficient charging.

## 2. PACKAGE CONTENTS

Before beginning installation, please verify that all items are present in your package:

- SEGUMA Level 1/2 EV Charger Unit (with NEMA 6-20 plug and J1772 connector)
- NEMA 5-15 Adapter
- Carrying Bag
- User Manual



Image: Contents of the SEGUMA EV Charger package, including the main charging unit, NEMA 5-15 adapter, J1772 charging gun, and a storage bag.

### 3. SETUP AND INSTALLATION

The SEGUMA EV Charger offers flexible setup options for both Level 1 and Level 2 charging. Ensure the charging environment is dry and well-ventilated.

#### 3.1 Connecting to Power Outlet

The charger comes with a NEMA 6-20 plug for Level 2 charging (240V, 16A) and a NEMA 5-15 adapter for Level 1 charging (120V, 12A). Select the appropriate plug based on your available outlet.

- **For Level 2 Charging:** Plug the NEMA 6-20 connector directly into a dedicated 240V, 16A NEMA 6-20 outlet.
- **For Level 1 Charging:** Attach the NEMA 5-15 adapter to the NEMA 6-20 plug, then plug it into a standard 120V, 12A NEMA 5-15 or NEMA 5-20 household outlet.

It is recommended to install a dedicated circuit breaker for added safety measures, especially for Level 2 charging.



Image: Illustration of the charger's NEMA 6-20 plug and NEMA 5-15 adapter, detailing compatibility with various household and dedicated EV outlets.

#### 3.2 Connecting to Electric Vehicle

Once the charger is securely plugged into the power source, connect the J1772 charging gun to your electric vehicle's charging port. Ensure a firm connection. The charger's 25-foot cable provides ample reach for convenient charging at home or public stations.



Image: The SEGUMA EV Charger connected to a vehicle, showcasing its 25-foot cable length for flexible placement.

### 3.3 Usage Scenarios

The portable design allows for use as a permanent home charging station or as a mobile charger for on-the-go needs.

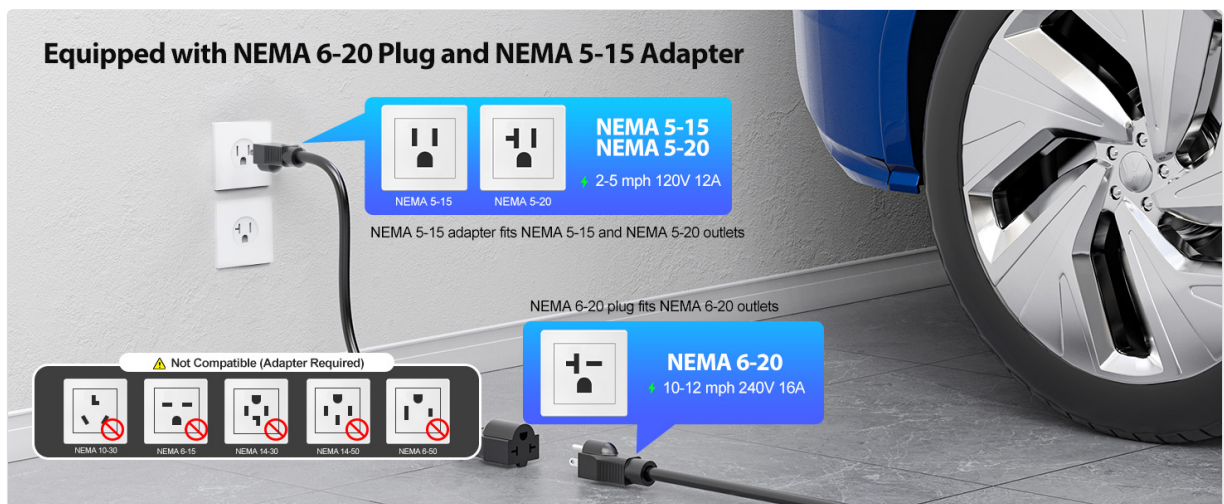


Image: Examples of the SEGUMA EV Charger's versatility, functioning as both a home charging station and a portable outdoor charger.

## 4. OPERATING INSTRUCTIONS

The charger features intuitive controls and dynamic LED indicators to monitor the charging status.

### 4.1 Charging Process

1. Plug the charger into the appropriate power outlet (NEMA 6-20 or NEMA 5-15 with adapter).
2. Connect the J1772 charging gun to your EV's charging port.
3. The charger will automatically begin charging. Monitor the LED indicators for status.
4. The charger will automatically shut off once your vehicle is fully charged.
5. To disconnect, press the release button on the J1772 connector and remove it from the vehicle. Then, unplug the charger from the power outlet.

### 4.2 Dynamic LED Indicators

The LED lights on the charger provide visual feedback on its operational status:

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



Image: A detailed guide to the charger's dynamic LED lights, indicating various charging statuses and potential fault conditions.

## 5. SAFETY FEATURES

The SEGUMA EV Charger incorporates an advanced chipset to provide comprehensive protection during charging:

- **Lightning Protection:** Safeguards against electrical surges from lightning.
- **Leakage Protection:** Prevents electrical leakage, ensuring user safety.
- **Grounding Protection:** Ensures proper grounding to prevent electrical hazards.
- **Over/Under Voltage Protection:** Protects against voltage fluctuations outside safe operating limits.
- **Overcharging Protection:** Automatically stops charging once the vehicle battery is full.
- **Excessive Current Protection:** Prevents damage from overcurrent situations.
- **Overheat Protection:** Monitors temperature and shuts down if overheating occurs.
- **IP66 Waterproof and Dustproof:** Ensures durability and safe operation in various weather conditions (-30°C to 45°C).

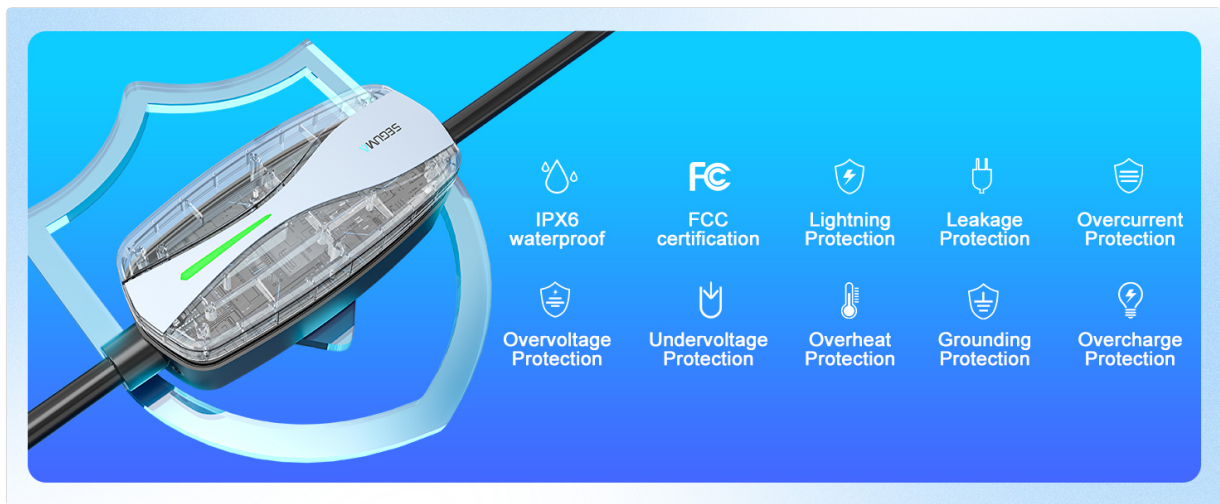


Image: An overview of the 10 intelligent safety features integrated into the SEGUMA EV Charger, ensuring secure and reliable operation.

## 6. COMPATIBILITY

The SEGUMA 16A EV Charger is designed with a standardized J1772 connector, ensuring compatibility with most electric vehicles (BEVs and PHEVs) that feature a J1772 charging port. This includes models from brands such as Ford, Kia, Chevrolet, Audi, Mercedes Benz, BMW, Porsche, Hyundai, and Nissan.

**Note:** Tesla vehicles require a separate J1772 to NACS adapter for compatibility.

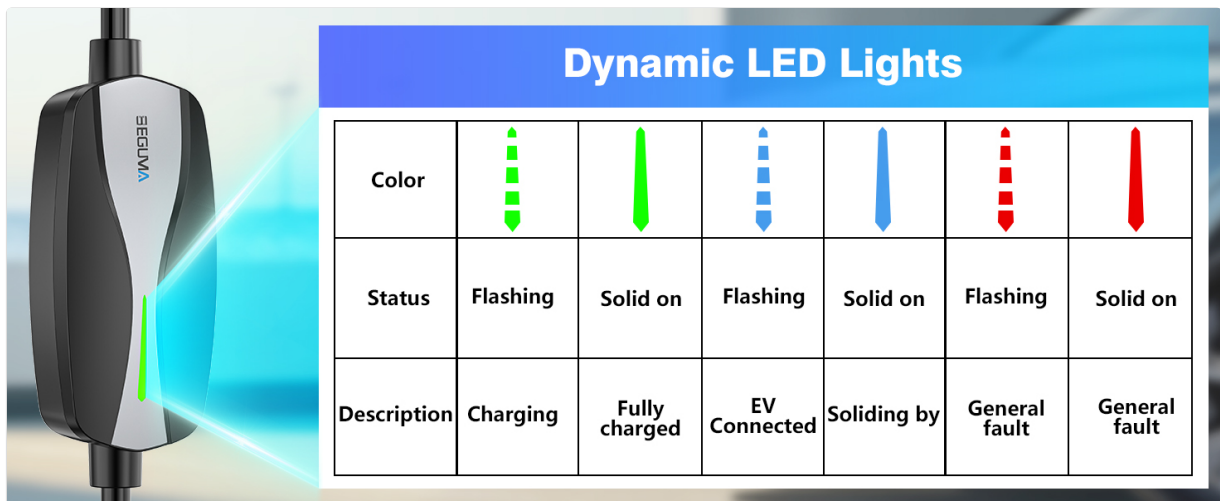


Image: Visual representation of electric vehicle brands compatible with the SEGUMA J1772 charger, noting that Tesla vehicles require an adapter.

## 7. MAINTENANCE

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

- **Regular Cleaning:** Keep the charging unit and cable clean and free from dust, dirt, and debris. Use a soft, dry cloth for cleaning.
- **Cable Inspection:** Periodically inspect the charging cable and connectors for any signs of wear, cuts, fraying, or damage. Do not use the charger if any damage is observed.
- **Proper Storage:** When not in use, coil the cable neatly and store the charger in its carrying bag in a dry, secure location, away from direct sunlight and extreme temperatures.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners, solvents, or harsh chemicals on the charger or cable, as this may damage the materials.

## 8. TROUBLESHOOTING

If you encounter issues with your SEGUMA EV Charger, refer to the following basic troubleshooting steps:

- **No Power/No Charging:**
  - Ensure the charger is securely plugged into a functional power outlet.
  - Check if the power outlet is receiving electricity (e.g., test with another appliance).
  - Verify that the circuit breaker for the outlet has not tripped.
- **Charging Not Initiating:**
  - Ensure the J1772 connector is fully and securely inserted into your vehicle's charging port.
  - Check the vehicle's dashboard or app for any charging errors or settings that might prevent charging.
- **Fault Indicator (Red LED):**
  - If the red LED is flashing or solid, a general fault has occurred. Disconnect the charger from both the power source and the vehicle. Wait a few minutes, then reconnect.
  - If the fault persists, contact customer support.
- **Slow Charging:**
  - Ensure you are using the correct power outlet and adapter for the desired charging level (e.g., Level 2 charging requires a 240V outlet).
  - Environmental factors (extreme cold) can affect charging speed.

For persistent issues or advanced troubleshooting, please refer to the warranty and support section.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	EV-ACS1604U
Charging Level	Level 1 (120V, 12A) / Level 2 (240V, 16A)
Output Current	16 Amps (Max)
Output Voltage	110V-240V
Power Output	3.84 kW (Max)
Cable Length	25 Feet
Plug Type	NEMA 6-20 (with NEMA 5-15 adapter)
Connector Type	J1772
Waterproof Rating	IP66
Operating Temperature	-30°C to 45°C
Item Weight	7.02 pounds
Product Dimensions	13 x 15 x 4 inches

## **10. OFFICIAL PRODUCT VIDEO**

Watch this official video for a visual overview of the SEGUMA Level 1/2 EV Charger.

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Video: An official overview of the SEGUMA Level 1/2 EV Charger, demonstrating its features and use.

## **11. WARRANTY AND SUPPORT**

The SEGUMA Level 1/2 EV Charger comes with a 12-month warranty and dedicated technical support. If you experience any issues or have questions that are not addressed in this manual, please contact SEGUMA customer service for assistance. Our team is committed to resolving any concerns you may have.