

Schneider Electric EV230WS

Schneider Electric EVlink EV230WS Electric Vehicle Charging Station User Manual

Model: EV230WS

1. PRODUCT OVERVIEW

The Schneider Electric EVlink EV230WS is a 30-Amp Generation 2.5 Enhanced Model Indoor Electric Vehicle Charging Station designed for efficient and convenient home charging. This Level 2 charging station provides a faster charging solution compared to standard 110-volt outlets, compatible with various electric vehicles.

Key features include a powerful 30 Amp charging capability with flexible input voltage (208 or 240 Volt AC), a user-friendly segmented LED display for charging status, and an auto-restart function to resume charging after power interruptions. The unit also incorporates a delay feature to optimize charging times.





Figure 1.1: Front view of the EVlink EV230WS charging station.

2. IMPORTANT SAFETY INFORMATION

Read all instructions before installing, operating, or maintaining this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Professional Installation Required:** Installation of this electric vehicle charging station must be performed by a qualified, licensed electrician in accordance with all national and local electrical codes and regulations.
- **Indoor Use Only:** This unit is designed for indoor use only and is not weatherproofed for outdoor installation. Do not expose to rain, snow, or other wet conditions.
- **Dedicated Circuit:** The 30-Amp charging station requires a dedicated 40-amp circuit breaker for safe and proper operation.
- **Grounding:** Ensure the charging station is properly grounded to reduce the risk of electric shock.

- **Avoid Damage:** Do not use the charging station if the enclosure, cable, or connector is damaged. Contact customer support for assistance.
- **Children and Pets:** Keep children and pets away from the charging station during operation.

This product complies with the following standards: SAEJ1772, NEC625, UL 2594, UL 2231-1, UL 2231-2, UL 991, UL 1998, and UL 2251.

3. SETUP AND INSTALLATION

Installation of the EVlink EV230WS charging station should only be performed by a qualified electrician. The following provides a general overview of the installation process.

3.1 Site Selection

- Choose an indoor location that is dry, well-ventilated, and protected from direct sunlight and extreme temperatures.
- Ensure the mounting surface is structurally sound to support the weight of the unit (approximately 18.65 pounds).
- Consider the proximity to your electric vehicle's charging port and the length of the charging cable for convenient use.

3.2 Electrical Requirements

- The unit requires a 208V or 240V AC dedicated circuit.
- A 40-amp circuit breaker is required for the 30-amp charging station.
- Wiring should be appropriate for the circuit amperage and local codes.

3.3 Mounting the Unit

The EVlink EV230WS is designed for wall mounting. Use appropriate hardware for your wall type. The unit includes a convenient cable holder for organized storage of the charging cable.

1. Mark the desired mounting location on the wall.
2. Securely attach the mounting bracket (if separate) or the unit directly to the wall using suitable fasteners.
3. Connect the electrical wiring according to the wiring diagram provided in the full installation guide (not included here).
4. Install the cable holder in a convenient location near the charging station.





Figure 3.1: EVlink EV230WS charging station mounted with cable holder.

4. OPERATING INSTRUCTIONS

Operating the EVlink EV230WS is straightforward. Follow these steps to charge your electric vehicle:

4.1 Initiating a Charge

1. Ensure the charging station is powered on and the vehicle is ready to receive a charge.

2. Take the J1772 connector from its holder.
3. Insert the J1772 connector firmly into your electric vehicle's charging port. You may hear a click as the vehicle communicates with the unit and the internal relay engages.
4. The segmented LED display on the charging station will illuminate, indicating that charging has begun.

4.2 Understanding the LED Display

The intuitive LED display provides visual feedback on the charging process:

- **Blinking Lights:** Indicate that the vehicle is actively charging. The lights move around a circle, approximating the charging duration.
- **Solid Lights:** Once the vehicle is fully charged, the blinking will stop, and a segment of the circle will remain solid, indicating the approximate hours of charge required.
- **Indicator Lights:** Additional lights identify if the charger is ready to use or requires attention (e.g., fault condition).

4.3 Delay Feature

The EVlink EV230WS includes a delay feature. Consult your vehicle's manual or the full EVlink product documentation for specific instructions on how to utilize this feature to manage charging times, potentially saving energy costs.

4.4 Stopping a Charge

To stop charging, press the stop button on the charging station or disconnect the J1772 connector from your vehicle's charging port. Ensure the vehicle has completed its charging cycle or is safely disconnected before removing the connector.

4.5 Auto Restart Feature

In the event of a power outage or fault, the auto-restart feature ensures that your car will continue to charge once power is restored or the fault is cleared. The unit also features automatic shut-off at 100 percent charge.

5. MAINTENANCE

The EVlink EV230WS charging station 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 with a soft, damp cloth. Do not use abrasive cleaners or solvents. 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. Do not use if damaged.
- **Ventilation:** Ensure the area around the charging station remains clear to allow for proper ventilation.

For any internal maintenance or repairs, contact qualified service personnel. Do not attempt to open or service the unit yourself.

6. TROUBLESHOOTING

If you encounter issues with your EVlink EV230WS charging station, refer to the following basic troubleshooting steps. For more complex problems, contact customer support.

6.1 Charging Not Initiating

- **Check Power:** Ensure the circuit breaker for the charging station is in the ON position.
- **Connector Connection:** Verify that the J1772 connector is fully and securely inserted into the vehicle's charging port.

- **Vehicle Status:** Confirm your vehicle is ready to accept a charge (e.g., not set to a delayed charge schedule).
- **Indicator Lights:** Observe the charging station's indicator lights for any fault codes or warnings.

6.2 Slow Charging

- **Vehicle Settings:** Check your vehicle's charging settings; some vehicles allow adjustment of charging current.
- **Power Supply:** Ensure the charging station is receiving the correct 208V or 240V input.

6.3 Unit Not Responding

- **Reset:** Turn off the circuit breaker for the charging station, wait 30 seconds, then turn it back on.
- **Inspect for Damage:** Visually inspect the unit, cable, and connector for any visible damage.

If troubleshooting steps do not resolve the issue, contact Schneider Electric customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Manufacturer	Schneider Electric
Part Number	EV230WS
Item Model Number	EV230WS
Charging Amperage	30 Amp
Input Voltage	208V or 240V AC
Wattage	7.2 KW
Power Source	AC (Grid Power)
Item Weight	18.65 pounds
Product Dimensions	12.7 x 9.5 x 4.4 inches
Mounting Type	Wall Mount
Certification	UL
Charging Access	Unrestricted
EV Connector Standard	SAEJ1772

8. WARRANTY INFORMATION

For detailed warranty information regarding your Schneider Electric EVlink EV230WS charging station, please refer to the official documentation included with your product or visit the Schneider Electric website. Warranty terms and conditions may vary by region and purchase date.

9. CUSTOMER SUPPORT

Schneider Electric offers expanded customer support services to assist with any questions or issues you may have. For technical assistance, troubleshooting guidance, or warranty claims, please contact Schneider Electric customer support

through their official website or the contact information provided in your product packaging.

Online resources, including FAQs and additional documentation, may also be available on the Schneider Electric website.