LENZ™

CHARGING SOLUTION

LENZ W1 EVSE

User Manual & Installation Guide

Model No: EVSE-W1-40-A



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- ✓ Customer Support through Project
- ✓ Manages the Permitting Process
- ✓ 1-Year Warranty for Parts & Labor

Version
10-2026-1

LENZ EV HOME CHARGING STATION

The LENZ W1 EV Charger (EVSE) is a durable, wall-mounted electric vehicle charging station that offers a simple yet powerful solution to meet your EV charging needs. Equipped with a 23-foot heavy-duty cable and featuring carefully selected internal components, it ensures reliable performance and durability. The LENZ W1 EV Charger enables you to charge your vehicle at up to 10kW, with adjustable internal switches providing current ranging from 16 to a maximum of 40 Amps.

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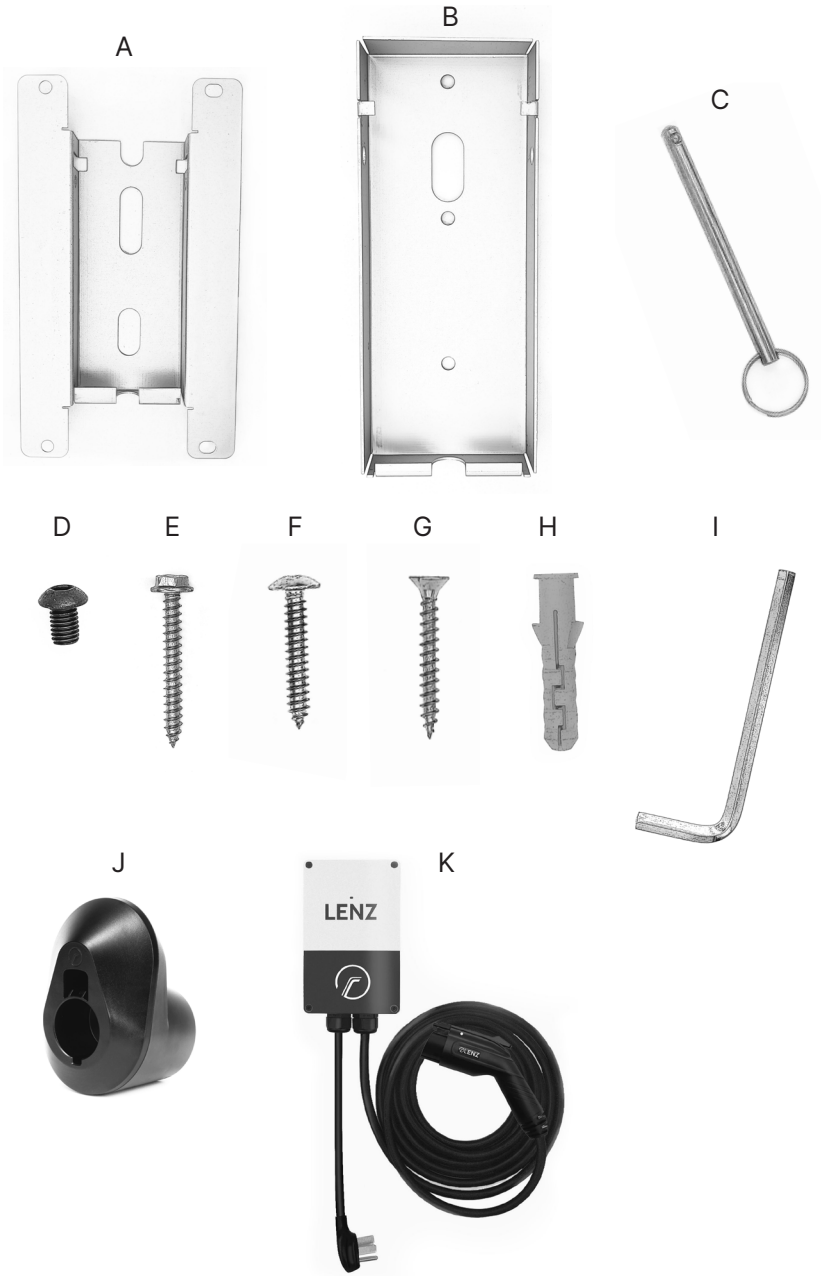
1. Parts & Tools

Included Parts

Part	Part Name	Qty
A	Mount Bracket Front	1
B	Mount Bracket Rear	1
C	Security Pin	1
D	Socket Cap Screw	4
E	Phillips Hex Head Screw	2
F	Phillips Pan Head Screw	2
G	Phillips Flat Head Screw	2
H	Anchors	4
I	Allen Key	1
J	Holster	1
K	EVSE	1

What do I need?

Phillips-Head Screwdriver Size PH3



2. Safety Instructions

Carefully read and follow the instructions and warnings provided in this document before installing or using the LENZ W1 EV Charger (EVSE). Thoroughly review this document, including all **WARNING** and **CAUTION** notes and symbols, to ensure proper installation and safe usage of the EVSE.

This manual is intended solely for the LENZ W1 EV Charger (EVSE) and should not be used for any other charging product. Prior to installation or use of this product, read this manual carefully and consult a licensed contractor, licensed electrician, or trained installation expert to ensure compliance with local building codes and safety standards. It is essential to consult a licensed electrician to determine if this product can be safely installed and used. All materials used and installation procedures must adhere to local building codes and safety standards.

Be aware that the information provided in this manual does not relieve the user of their responsibility to comply with all relevant codes and safety standards.

While efforts have been made to ensure the accuracy of the specifications and other information in this manual at the time of its publication, this manual may be updated without notice. Please visit our website for the latest version.

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

WARNING – When using electric products, basic precautions should always be followed, including the following:

a) Read all the instructions before using this product.

b) This device should be supervised when used around children.

c) Do not put fingers into the electric vehicle connector.

d) Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.

e) Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

f) The maximum ambient temperature is 122°F (50°C)

g) If the product is faulty or warning occurs, please stop using it immediately and contact product maintenance personnel.

SAVE THESE INSTRUCTIONS

2.1 Important Precautions For Use and Repair

1. The EVSE is not intended for use by children.

2. Never touch active electrical parts.

3. **DO NOT** insert any part of your body into the EVSE connectors.

4. Inspect all cords and cables for defects or signs of damage, including but not limited to frayed cables or broken insulation. **DO NOT** install or use the EVSE if visible damage is present. Contact us immediately for support.

5. Engage a licensed electrician and/or an authorized installer, as improper connections, including improper grounding, can result in electrical shock, bodily harm, death, fire, or property damage. **ALWAYS** ground the EVSE.

6. For repairs, contact an authorized installer or technician. **DO NOT** attempt to disassemble, repair, modify, replace, or tamper with any of the EVSE components yourself.



WARNING: The EVSE is solely for charging vehicles that do NOT require ventilation during the charging process. If you are unsure if ventilation is necessary for your vehicle, consult your vehicle's owner manual or contact the vehicle's manufacturer.

3. Product Specifications

Model Number	EVSE-W1-40-A
Operating Temperature	-22°F to 122°F (-30°C to 50°C)
Cable Length	23 feet (7 meters)
Gross Weight	20 lbs (9.1 kg)
Product Dimensions	17.7 × 20.25 × 9.4 inches (45 × 51.5 × 24 cm)
Housing	Heavy-duty aluminum, airtight enclosure
Enclosure Rating	NEMA 4X (weatherproof and corrosion-resistant)
Input	240VAC
Output	40A Max
Charging Connector Type	SAE J1772
Plug Type	NEMA 14-50
Warranty	3 Year
Standard Compliance	ETL Listed in Compliance with UL2594; Energy Star Certified
Protection Features	CCID ground-fault / leakage protection Ground continuity monitoring Over-current protection Over-temperature protection Surge / transient immunity (tested)
Displays	LED status indicators
Use Rating	Indoor/Outdoor Rated

3.1 Circuit Rating

The EVSE amperages are adjustable to accommodate electrical capacity and desired charging speeds. The EVSE supports the following settings: 40A, 32A, 24A, or 16A.

Circuit Rating	Max Load	Range per Hour - Estimate
50A	40A	30 miles (48 km)
40A	32A	25 miles (40km)
30A	24A	18 miles (29 km)
20A	16A	12 miles (19 km)

CAUTION: The EVSE is a continuous load device. The circuit must be rated at 125% of the maximum load.

ENERGY STAR

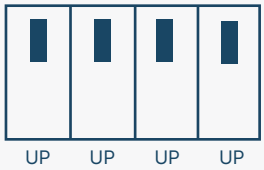
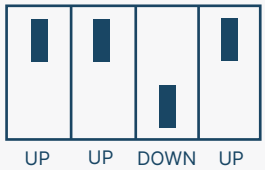
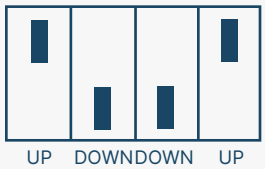
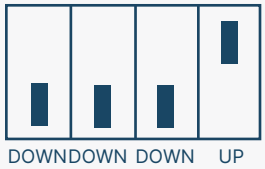
Intertek
5024450
CONFORMS TO UL STD:
UL 2594:2016 Ed.2
CERTIFIED TO CAN/CSA STD:
CSA C22.2#280:2016 Ed.2

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

4. Adjustable Amperages (DIP Switches)

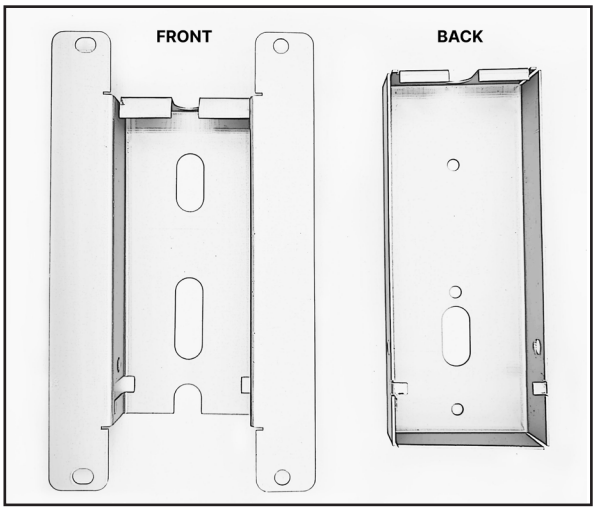
CAUTION: ***Unplug*** the EVSE before adjusting the maximum current output.

Step 1: With the front of the EVSE facing out, lay and secure the EVSE on a flat surface.
Step 2: Remove the front cover of the EVSE by unscrewing the screws on the 4 corners.
Step 3: Refer to the DIP switch combination settings in the chart below to set the Maximum Current Output to 40A, 32A, 24A, or 16A.

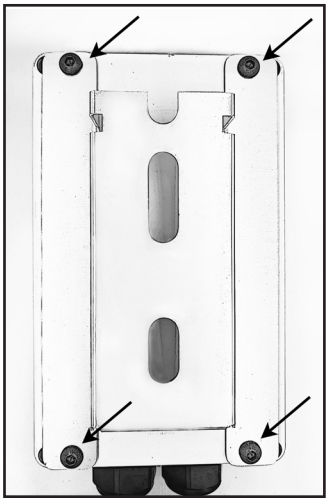
Maximum Current Output	DIP Switch Setting
40A (Factory Default Setting)	
32A	
24A	
16A	

5. Step-by-Step Installation

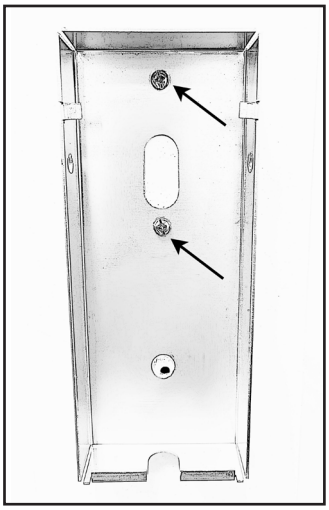
Step 1:
Separate the front and back pieces of the mounting bracket.



Step 2:
Attach the front piece of the mounting bracket to the backside of the charging station using the Socket Cap Screws (Part D). The top of the mounting bracket should be aligned with the top of the charging station.



Step 3:
Attach the back piece of the mounting bracket to the wall using the Phillips Hex Head Screws (Part E).



- **IMPORTANT:** Locate a stud within the wall. Use the top 2 holes of the back piece of the mounting bracket to secure it onto the stud.
- **CLEARANCE:** Position the back piece of the mounting bracket so that the charging station is a minimum of 18 inches (48 centimeters) above the floor.
- **DISTANCE TO NEMA OUTLET:** Position the back piece of the mounting bracket so that it so that it is equal or less than 12 inches (30cm) from the NEMA outlet.
- **MOUNTING SCREW RECOMMENDATIONS:** For finished walls with wood studs, use Part E. For Masonry walls, use Parts F and H.

Step 4:
Secure EVSE to the wall by sliding front piece of mounting bracket (attached to the charging unit) into the back piece of the mounting bracket (secured to the wall) as follows:

1. Insert the top end of the front piece into the corresponding slot on the back piece at a slight angle.

2: Rotate bottom end of front piece into the back piece until front piece is fully inserted inside the back piece cavity.



Step 5:

1. Adjust front piece of mounting bracket (attached to the charging unit) to align the holes for the security pin with the corresponding holes of back piece mounting bracket.

2. Insert and slide the security pin or outdoor security lock through both sets of holes to securely fasten the EVSE in place. Slightly lift or lower bracket as needed to slide the security pin into place.

1.



2.



Holster Installation:
Your LENZ W1 EVSE comes equipped with a holster. For more details, please visit here:

6. Status, Indicator and Buzzers

LED Indicator	Description	Sound	Status
■	No Light	No Sound	Power Off
	Rapid Flashing Blue	No Sound	Vehicle Detection
■	Static Green	No Sound	Ready
	Slow Flashing Green	No Sound	Charging in Progress
	Flashing Red	Intermittent buzzer	Fault

Red LED Fault Codes

Red LED Pattern	Fault Description	Buzzer
1 flash per cycle	Grounding Fault	Intermittent
2 flashes per cycle	Over-temperature Fault	Intermittent
3 flashes per cycle	Over-current Fault	Intermittent
4 flashes per cycle	Ground Fault / Leakage Fault	Intermittent
5 flashes per cycle	Relay Fault	Intermittent

Count the red flashes in each repeating sequence, separated by a pause. The buzzer sounds intermittently during the listed fault conditions.

When a ground fault / leakage fault is detected, the EVSE interrupts the charging output and stops charging.

NOTE: The EVSE incorporates internal CCID ground-fault / leakage protection. This protection is separate from any GFCI protection required for the branch circuit or receptacle. Follow applicable electrical codes and local authority requirements.

6.1 Auto-Restart

If a charging session is interrupted, the status indicator lights will flash. When an error occurs, the EVSE will stop charging and self-monitor the error condition. The LED indicator will continue to flash red until the issue causing the interruption is resolved. If the issue is resolved within 60 seconds, the EVSE will automatically reset.

NOTE: If the error occurs within the first 5 seconds of charging, the EVSE will trigger a permanent fault.

6.2 Permanent Fault (How to Reset EVSE)

If a permanent fault occurs, or the EVSE does not auto-restart, perform a manual reset as follows:

Step 1: Refer to the Red LED Fault Codes table in Section 6 to identify the fault by the number of red flashes.

Step 2: Unplug the EVSE from your electric vehicle.
Step 3: Power down the EVSE by switching the upstream circuit breaker to the **'OFF'** position.
Step 4: Wait 2 minutes.
Step 5: Turn the upstream circuit breaker to the **'ON'** position.
Step 6: If the red fault indicator light no longer flashes, the EVSE is ready for charging.
Step 7: If the red fault indicator light continues to flash after the reset, please contact Customer Service.

7. EVSE Maintenance

To maintain optimal operating conditions, we recommend periodic inspection and cleaning of the EVSE.

When cleaning the EVSE, use a soft cloth dampened with soap and water to gently remove any dirt, debris, or dust. If any of the components, including the power cable or charging connector, are damaged, do not use the charging station and turn off the circuit breaker connected to the EVSE.

WARNING: Do not use cleaning solvents when cleaning the EVSE or any of its components. Do not rinse, submerge, or hose down the EVSE.

8. EVSE Limited 3-Year Warranty Statement

Your EVSE comes with a limited warranty against defects in materials and workmanship that lasts 3 years from the original date of purchase. This warranty is non-transferable, is only redeemable by the original purchaser (or a party who has received the EVSE as a gift from the original purchaser), and requires that you purchased the EVSE from an authorized seller. LENZ requires that you present proof of purchase to redeem this warranty. To redeem this warranty, contact LENZ in writing with a description of the damage. LENZ will confirm the nature and extent of the damage of your EVSE prior to sending you a replacement.

This warranty is your sole and exclusive remedy for any defect in materials and/or workmanship of your EVSE. This warranty does not cover regular wear and tear, accidental damage, damage to your EVSE caused by improper use, or damage to your EVSE caused by commercial or non-personal use. Without limiting the foregoing, this warranty does not cover damage to your EVSE resulting from abuse, neglect, alteration, improper installation, improper testing or repair, accident, natural disaster, or non-compliance with any instructions found in this EVSE manual or published on the LENZ Charging Solutions' website.

Although not required, we recommend registering your EVSE purchase on the LENZ Charging Solutions website (www.LenzCharging.com) for expedited verification of warranty coverage and for simplified processing of any warranty claims.

LENZ shall have absolute discretion to determine the validity of any warranty claim and whether any claim is covered.

Disclaimer and Limitations of Liability:

Except for the limited warranty provided above, to the fullest extent permitted by applicable law, LENZ Charging Solutions provides the EVSE "as is" without warranty of any kind. LENZ makes no other warranties, whether express, implied, or statutory. LENZ Charging Solutions hereby expressly disclaims all warranties, representations and conditions, whether express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose, and non-infringement.

Under no circumstances shall LENZ Charging Solutions be held liable for indirect, special, incidental, or consequential damages, even if the EVSE or one or more of its authorized sellers has been informed of the possibility or likelihood of such damages. LENZ Charging Solutions will not be responsible for costs related to the replacement or repair of the product or any damage caused thereby, including but not limited to labor, installation, or other expenses incurred by you, and including but not limited to any costs related to the removal or replacement of the EVSE. LENZ Charging Solutions' liability for any and all claims, losses, or damages arising out of or relating to your purchase and/or use of the EVSE, under any cause of action or theory of liability (including but not limited to under contract, tort, negligence, statute, or otherwise), shall not exceed the purchase price paid by you (or the purchaser) for the EVSE. These limitations and exclusions of damages shall apply to the maximum extent permitted by applicable law. In some jurisdictions, some exclusions or limitations may not apply to you. In such jurisdictions, these limitations and exclusions shall be amended to the minimum extent necessary to apply.

Your use of the EVSE signifies your agreement to the terms of the limited warranty, damages exclusions, and limitations of liability contained herein. You shall not use or install the EVSE if you do not agree to these terms and in such cases may return the EVSE within thirty (30) calendar days for a refund of the purchase price.

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For additional customer support,
scan here:

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