LECTRON

USER MANUAL

12-40A-LEVEL 1/2 NACS/TESLA PORTABLE EV CHARGER

12A-40A | NEMA 5-15 & 14-50
Compatible with all Tesla Models & NACS EVs

CONTENTS

DISCLAIMER

This user manual contains crucial instructions for the proper installation and operation of this product. Please read the manual thoroughly before using the device and keep it for future reference. The information and specifications provided are accurate at the time of publication. Details may change without prior notice due to ongoing product enhancements. Damages resulting from customized installations or programs not outlined in the user manual, or failure to adhere to the recommendations provided, void warranty and liability.

IMPORTANT SAFETY INSTRUCTIONS

INSTALLATION:

Electrical outlets for your charger should be installed by a licensed and qualifed electrician to comply with the National Electric code (NEC) and local codes. In case of conflicts, local codes take precedence.

SAFETY GUIDELINES:

- Ground the product to reduce the risk of electric shock in case of malfunction.
- Avoid dropping the charger or coupler.
- Contact Lectron Customer Support at **contact@ev-lectron.com** for usage guidelines, maintenance, or repairs.

GROUNDING INSTRUCTIONS:

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

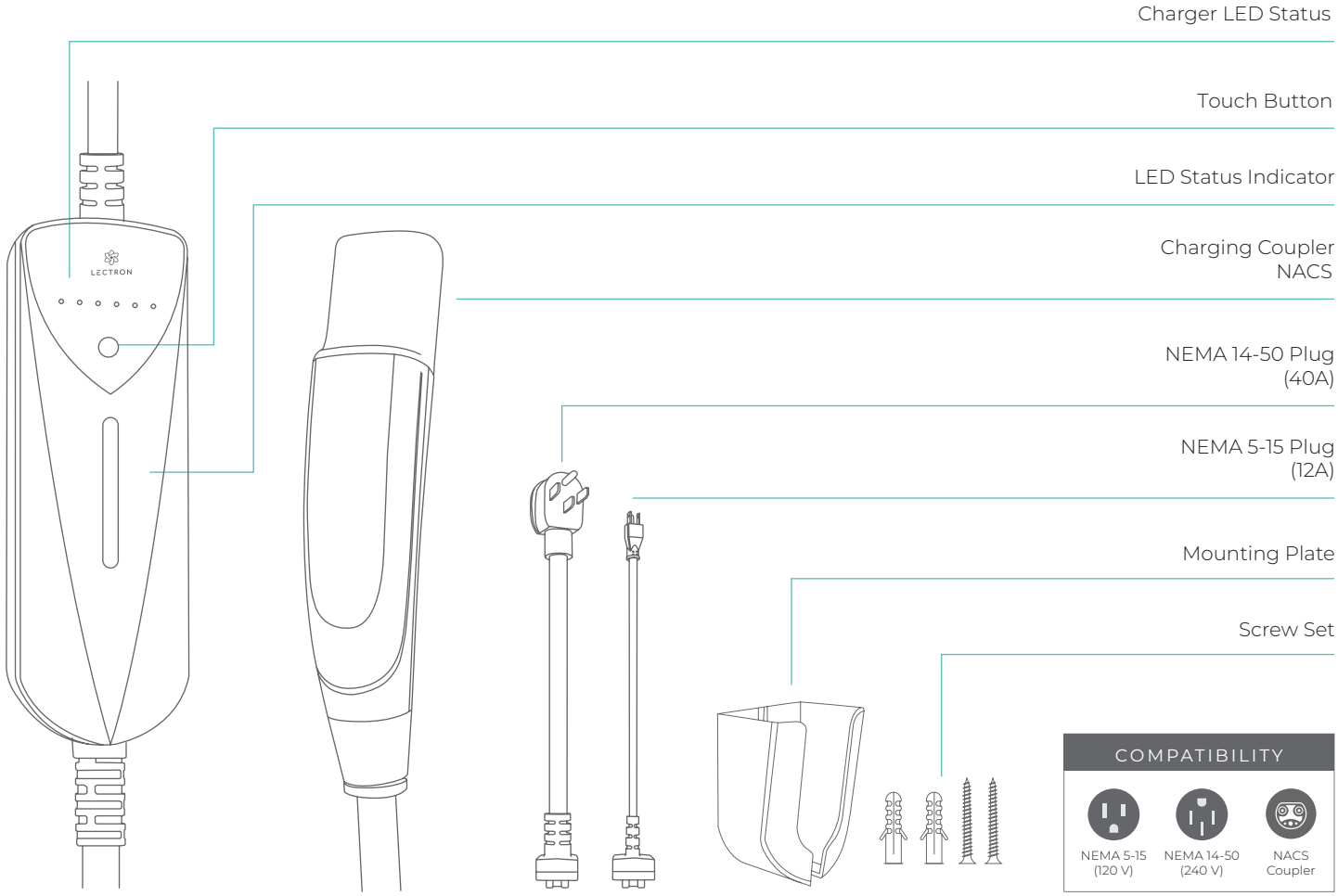
WARNING:

Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

PRECAUTIONS:

- Read warnings on the charger cord label and all instructions in this guide before use.
- Do not inser fingers into the electric vehicle connector.
- Do not use if the power cord or EV cables is damaged
- Never use with an extension cord or AC adapter.
- Ensure the plug is fully inserted into the wall outlet to prevent shock hazards.
- Supervise children near a plugged-in charger.
- Handle the equipment with care during transportation to prevent damage.
- Store the product in a clean, low humidity environment, away from moisture or water.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

PRODUCT OVERVIEW



LED STATUS INDICATORS

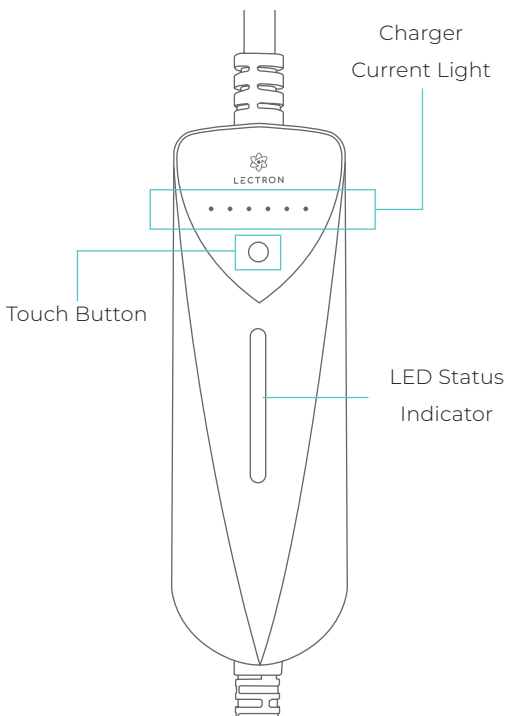
Status indications are displayed on the LED light at the front face of the charger.

FUNCTION & STATUS INDICATION

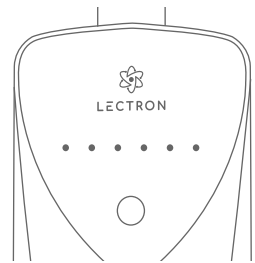
FUNCTION STATUS	LED COLOR				LED BEHAVIOR
	(Green)	(Blue)	(Yellow)	(Red)	
Normal status light					Marquee: LED cycles through blue, green, and yellow from bottom to top
Has power not connected					Blue LED is always on
Connected, not charging					Marquee: from bottom to top
Charging: 12A & 40A					Charging marquee: from bottom to top
Charging complete					Green LED is always on
Communication error (CP voltage abnormality)					Red LED is always on
Over-current protection					LED flashes one time + off 1s cycle
Leakage protection					LED flashes two times + off 1s cycle
Relay adhesion					LED flashes three times + off 1s cycle
Over/Under-voltage protection					Yellow LED is always on
High-temperature protection					LED flashes one time + off 1s cycle
Ground fault					LED flashes two times + off 1s cycle

ADJUSTING THE CHARGING CURRENT

Your Lectron EV Charger includes a touch-sensitive button and six LED Current Lights, which indicate the selected charging current. These LEDs help you monitor and adjust the amperage based on the plug type, either NEMA 5-15 (Level 1) or NEMA 14-50 (Level 2).



Each light corresponds to a specific charging current:



- 1st light (leftmost) – 8A
- 2nd light – 12A
- 3rd light – 16A
- 4th light – 24A
- 5th light – 32A
- 6th light (rightmost) – 40A

PLUG-IN BEHAVIOR AND DEFAULTS

With a NEMA 5-15 plug (Level 1):

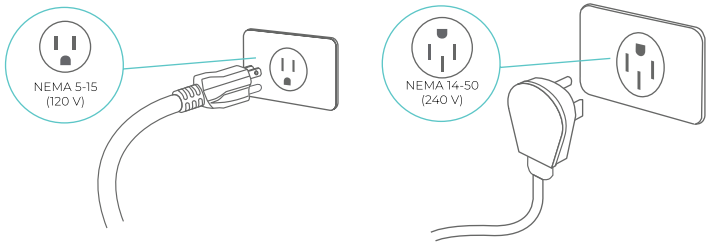
- Only **8A** and **12A** are selectable
- **Default current:** 12A
- **Max selectable current:** 12A

With a NEMA 14-50 plug (Level 2):

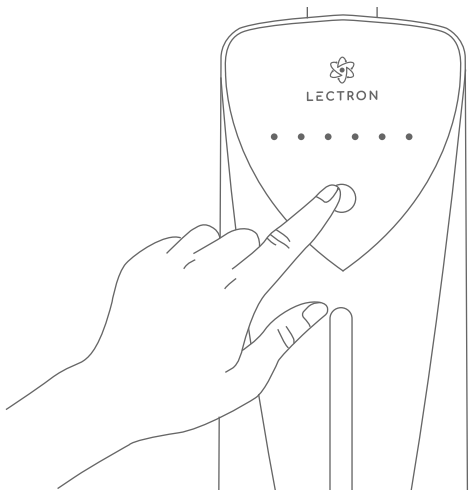
- Only **16A, 24A, 32A,** and **40A** are selectable
- **Default current:** 40A
- **Minimum selectable current:** 16A

HOW TO SELECT CHARGING CURRENT

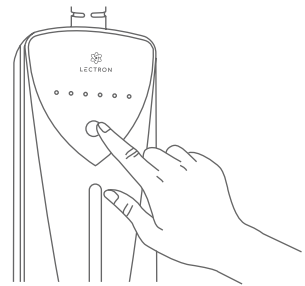
1. Plug the charger into the appropriate outlet (NEMA 5-15 or NEMA 14-50).



2. Before charging begins, **press the touch button twice quickly** to enter current selection mode.

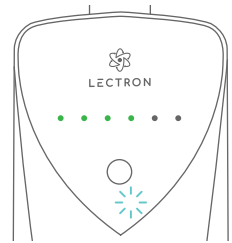


3. Press the button repeatedly to cycle through the available current levels:



NEMA 5-15: 8A ➡ 12A ➡ 8A ➡ ...
NEMA 14-50: 16A ➡ 24A ➡ 32A ➡ 40A ➡ 16A ➡ ...

4. The LED light for the selected current will illuminate.

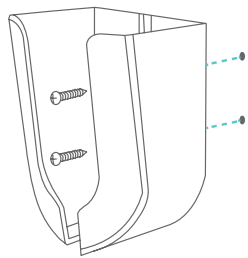


5. **Do not touch the button again,** charging will begin shortly after your selection.

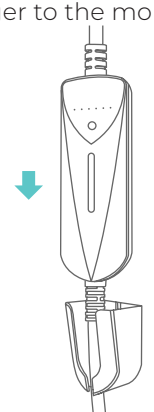
⚠️ Note: Charging current cannot be changed once charging has started. To adjust it, unplug the charger and repeat the steps above.

MOUNTING THE CHARGER

1. Align the mounting plate with the holes on the wall.



2. Insert the wall anchors into the holes.
3. Attach the charger with the mounting plate, anchors, and fix it to the wall using the screws provided.
4. Attach the charger to the mounting plate.

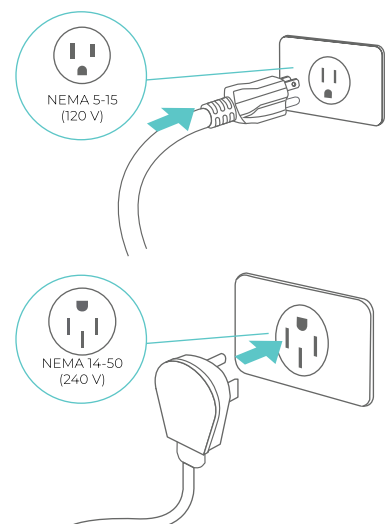


CHARGING YOUR VEHICLE

Note: Ensure that the car is parked and the engine is turned off.

1. Selecting a NEMA plug.

- Choose the NEMA plug that matches your wall outlet type and desired current.
- Insert the plug into the wall outlet firmly.



TROUBLESHOOT

Use this guide to fix common issues while charging your vehicle.

Problem	Possible Cause	Solution
Charging Indicator doesn't light up	No power to the charger	1. Check the circuit breaker and other circuit loads. 2. Try another wall outlet. 3. Ensure that the charger module is fully inserted into the wall outlet.
	Charger problem	Contact Lectron Customer Support at **contact@ev-lectron.com** for assistance.
Vehicle won't charge	Vehicle not ready to charge	Check the vehicle's charge timer settings. Refer to the owner's manual for instructions.
	Communication error	1. Check charger connection. 2. Try unplugging and replugging the charger.
Over/Under voltage	AC input voltage outside of range	If the voltage is over 276Vac or under 187Vac for a short time, wait for the grid to recover to the normal voltage range.
Overcurrent	AC input current outside of range	1. Disconnect the overcurrent protection switch from the distribution box. 2. Check for a low impedance connection between the two output cables.
Over temperature	Internal charger temperature is too high	1. Wait for charger to cool. 2. Ensure charger environment is below 130°F.
	House or socket wiring may be faulty.	Have a qualified electrician check the wiring.
Leakage protection	Abnormal sensor for detecting leakage current	1. Disconnect the leakage/overcurrent protection switch from the distribution box. 2. Check whether the output cables are damaged or have a low impedance connection to the ground. 3. After troubleshooting the above issues, reset the distribution box and restart the charger.
Ground protection	Abnormal grounding of input or output	1. Disconnect the Leakage/overcurrent protection switch from the distribution box. 2. Check if the grounding of the input/output cables of the charger is normal. 3. After troubleshooting the above issues, reset the distribution box and charger.

If issues persist, please **contact@ev-lectron.com** for assistance.

SPECIFICATIONS

Rated Charging Capacity:	1.44KW / 9.6KW
Rated Current:	8A / 12A / 16A / 24A / 32A / 40A
Rate Voltage:	120V ~/240V ~
RCD:	CCID20
Standby Power:	<5W
Measuring Accuracy:	±2%
User Interface:	LED Indicator
Certificate Standard:	UL2231 / UL2594
Charging Interface:	SAE J3400
Weatherproof Rating:	ICCPD (Control Box) - Type 4
	Charger Connector - Type 3R
Housing Material:	PC
Operating Temperature:	-22° F - 122° F (-30° C - 50° C)
Plug Type:	NEMA 5-15 / NEMA 14-50

GET MORE SUPPORT

Need assistance? Scan the QR code below or email us at **contact@ev-lectron.com**

CONTACT US

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