



EVSE USER MANUAL

Portable EV Charger



Product image are for illustrative purposes only and may differ from the actual product.



CONTENT

Product Descriptions	P02
Important Safety Instructions	P02
Caution	P03
Warning	P04
LCD Status Indicator And Definition	P05
Specification	P07
General Charging Steps	P08
Troubleshooting	P09
Storage	P10

STORAGE

The SAE J1772 / IEC 62196 AC EVSE Portable Electric Vehicle Charger must be stored in a clean and dry location, and it must be located away from any high heat sources. Avoid oily or corrosive substances from contacting the ev charger including power cord, plug and connector. Avoid any fall or drop that can lead to impacts between a hard surface and the ev charger. Make sure there is no contact of any sharp object with the ev charger. Do not store the ev charger in a location where rodents have access, such as an exterior shed.

TROUBLESHOOTING

DIAGNOSTIC	SUGGESTIONS
Have power, no connection	Connect the electric vehicle
Connection, no charging	Start charging
Charging	Keep the unit away from water
Finished Charging	Un-plug the power and take good care of the unit
Communication Fault	Check the car side whether it is connected
Overload Protection	Check circuit and socket; Un-plug & re-plug the charger
Abnormal Current (SCP)	Check circuit and socket; Un-plug & re-plug the charger
Leakage Protection	Check circuit and socket; Un-plug & re-plug the charger
Overvoltage/Undervoltage Protection	Check circuit and socket; Un-plug & re-plug the charger
Unit Overheating Protection	To restart, un-plug for a time then re-plug the charger

PRODUCT DESCRIPTIONS



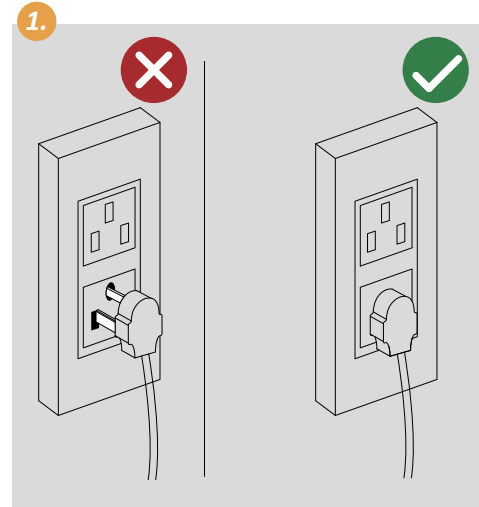
IMPORTANT SAFETY INSTRUCTIONS

● Please read these Important Safety Instructions and the Charging Instructions in your vehicle owners' manual before charging your electric vehicle. Failure to do may result in death or serious injury. Keep this user guide for future reference. There are many safety features built into the charger. Read all safety information and warnings in this guide to be aware of any hazards and risks associated with the charger.

⚠ CAUTION

- Incorrect installation and testing of the charger could potentially damage either the vehicle's Battery or the charger itself. Any resulting damage is excluded of the warranty for the charger.
- Do not operate the charger in temperatures outside out of range from -13°F (-25°C) to 131°F (55°C).
- Ensure that the charge cable is positioned so it will not be stepped on, tripped over, or subjected to damage or stress.
- To reduce the risk of electrical shock, Please connect to properly grounded outlets. Never leave children unattended while the vehicle is charging and never allow children to play with the charge cable.
- When you find that the electric vehicle cable is frayed, the wire is exposed, or the charger box is damaged, please stop using the product immediately.
- If the plug provided does not fit the outlet, do not modify the plug, arrange for a qualified electrician to inspect the outlet.
- This equipment should be installed, adjusted, and serviced by qualified electrical personnel familiar with the construction and operation of this type of equipment and the hazards involved. Failure to observe this precaution could result in death or severe injury.
- Lockout all electrical source circuit feeding the charging unit in the open position before beginning wiring or terminations. Failure to follow the instructions could result in server bodily injury or death.

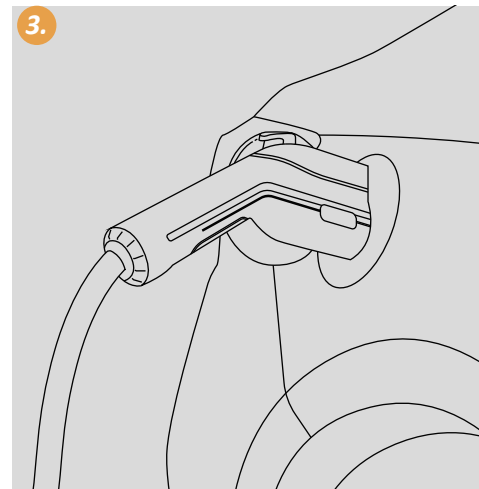
■ GENERAL CHARGING STEPS



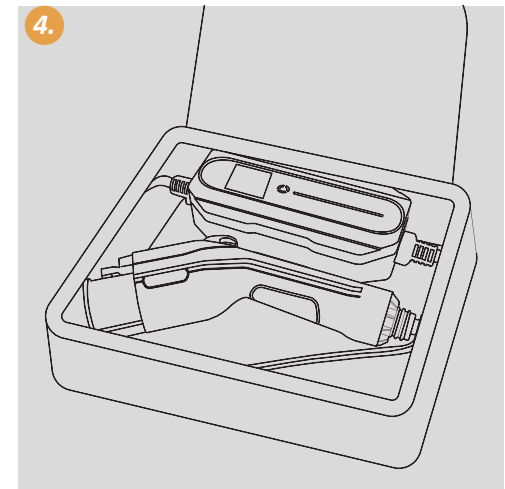
#Connect power cord to grid.



#When the display shows Ready status, click the button to select the current: 10A/16A/20A/24A/32A



#Link the connector of the EV Charger to your electric vehicle, then charging.



#When charging is complete, unplug the connector from the car.

SPECIFICATION

ELECTRICAL CHARACTERISTICS SPECIFICATIONS

Rated Voltage	240VAC Single Phase
Rated Current	10A/16A/20A/24A/32A
Insulation Resistance	>5MΩ,DC500V
Contact Impedances	0.5MΩ Max
Withstand Voltage	2000V
Fireproof Grade of Rubber Shell	UL94V-0
Mechanical Life: Unloaded Plugged	>10000
Plastic Shell	Thermoplastic Plastic
Conductor	Copper Alloy, Silver Plated Surface
Working Environment Temperature	-13°F (-25°C) to 131°F (55°C)
Insertion and Extraction Force	<80N
*Ground Fault Detection	When ground fault is detected, the red indicator light will on. The charging function will still work.

12 SAFETY PROTECTIONS



Vehicle pulsating DC leakage protection



Pressure resistant flame retardant



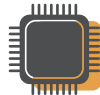
Electrostatic protection



Protecting earthing detection



Undervoltage protection



Intelligent kernel



Crush test



Circuit board Temp sensor



Overvoltage protection



Water-proof protection



Lightning protection



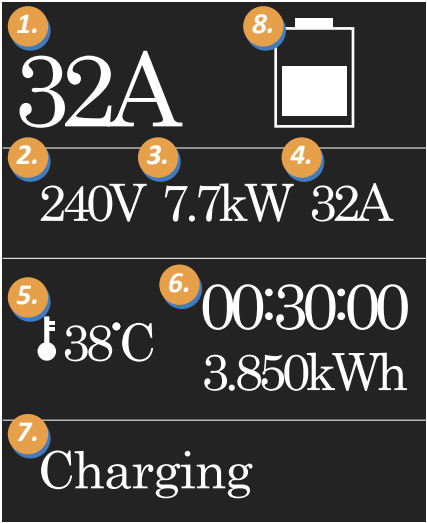
Overcurrent protection

WARNING

- Please do not install or use the charger near flammable, explosive, harsh, combustible materials, chemicals or steam.
- Please do not use the charger when it is defective, cracked, worn, broken, otherwise damaged or cannot be operated.
- Please do not attempt to open, disassemble, repair, tamper with, or modify the charger. The charger is not user serviceable.
- Please do not use the charger when either you, the vehicle, or the charger is exposed to severe rain, snow, electrical storm or other severe weather.
- Please do not forcefully pull the charge cable or damage it with sharp objects.
- Please do not insert foreign objects into any part of the charging vehicle connector.
- If the AC wall plug feels hot while charging, unplug the unit and replace the AC outlet.
- If the socket of the charger is aging or the wires are exposed, please ask a professional electrician to replace the socket in time.
- Turn off input power at the circuit breaker before cleaning the charger.
- Use the charger only within the specified operating parameters.
- Using with a worn or damaged AC outlet may cause burns or start a fire.

LCD STATUS INDICATOR AND DEFINITION

LCD DISPLAY DETAILS



- 1. The current you choose (10A/16A/20A/24A/32A)
- 2. Actual working voltage
- 3. Actual working power
- 4. Actual working current
- 5. Operating temperature
- 6. Charging time
- 7. Working status
- 8.

LCD DISPLAY STATUS

LCD DISPLAY STATUS					
Operating status of the display	Definition	Indicators/Status			
		LCD1 (Green)	LCD2 (Green)	LCD3 (Green)	LCD4 (Red)
Ready	Waiting connection	Light On	Light Off	Light Off	X
Charging	Charging	Racing Light	Racing Light	Racing Light	X
Connect	Charging complete	Light On	Flash	Light Off	X
Err: CP	CP signal is abnormal	Light Off	Light Off	Light Off	Flash 1 times every other 2S

Under Voltage	Under voltage	Light Off	Light Off	Light Off	Flash 2 times every other 2S
Over Voltage	Over voltage	Light Off	Light Off	Light Off	Flash 3 times every other 2S
Elec Leakage	Electric leakage	Light Off	Light Off	Light Off	Flash 4 times every other 2S
Over Current	Over current	Light Off	Light Off	Light Off	Flash 5 times every other 2S
Over temperate	Circuit board exceeds 85°C	Light Off	Light Off	Light Off	Flash 6 times every other 2S
/	Grounding is abnormal	X	X	X	Light on
/	Self-checking failure	Light Off	Light Off	Light Off	Flash 8 times every other 2s

Note: X indicates that the light is on or off

NOTE: Grounding is Abnormal

- Why the red light is on?**
When ground fault is detected, the red indicator (LCD4) light will on. It's just a reminder. The ev charger will operate normally without the ground wire because it is not a part of the conducting path which supplies electricity to the appliance. We suggest your outlet should be grounded.
- Action You Need To Take:**
Find an electrician to check if the ground wire of the home outlet is connected.
- Why is grounding important?**
The most important reasons for grounding wire is that it can protect your ev charger, your home and everyone in it from surges in electricity. If your electrical system is grounded, all of that excess electricity will go into the earth — rather than frying everything connected to your system.