



# Smart Home EV Charger

## EMEVSE 2



### Description

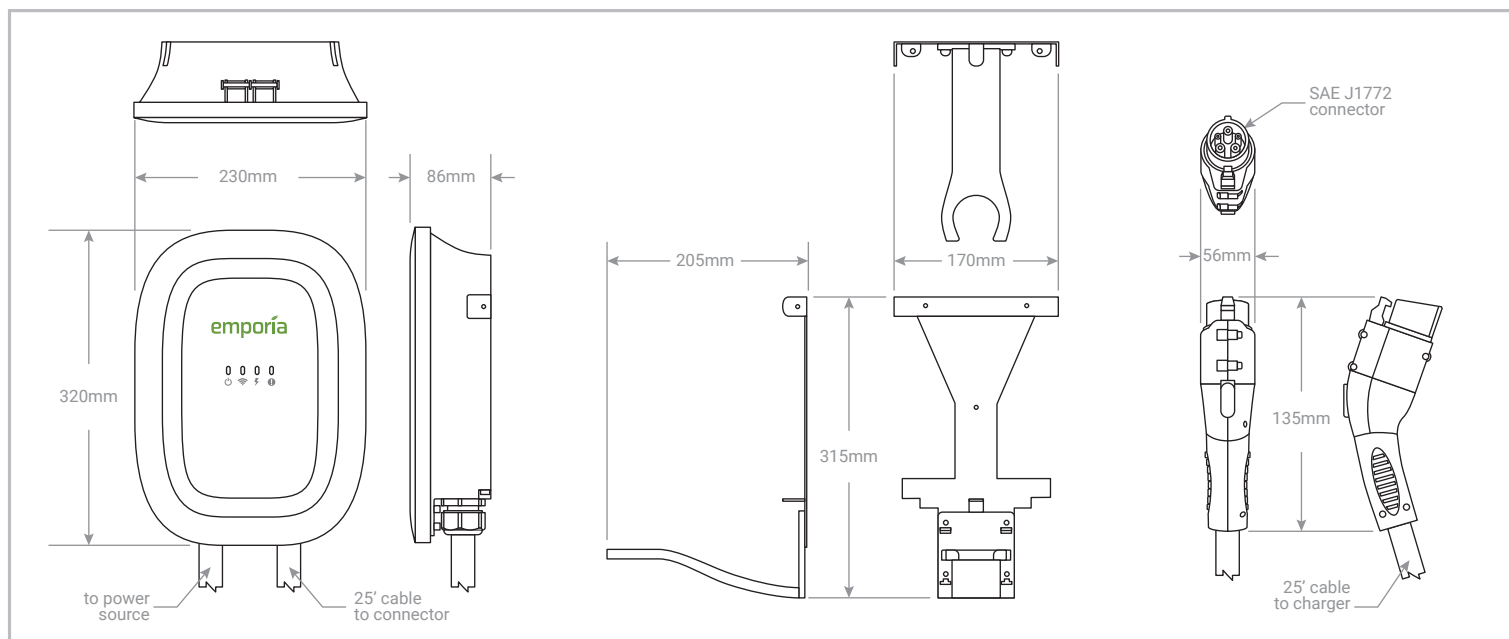
Level 2 electric vehicle charging station charges any EV up to 40 amps with NEMA 14-50P or up to 48 amps with hardwired installation. Works with all electric cars. Installs easily indoors or out. Use the Emporia app to schedule charging when electricity is cheapest and see all your charging data and energy consumption in one place.

### Features

- Level 2 / 48 amp
- Compatible with any EV (adapter required for Tesla)
- Schedule charging with app
- Track energy use with app
- Integrated cable management
- For residential and commercial
- 2.4 GHz 802.11b/g/n WiFi
- UL Listed
- Easy to use and install

### Specifications

<b>Input Voltage</b>	208/240VAC 50/60Hz
<b>Power Charge</b>	11.5kW (240V/48A) / 9.6kW (240V/40A) / 10kW (208V/48A) / 8.3kW (208V/40A)
<b>Required Breaker</b>	Dedicated 50A+ dual pole for 40A Dedicated 60A+ dual pole for 48A
<b>Connector</b>	25' cable SAE J1772 connector
<b>Power Wiring</b>	NEMA Type 14-50P (up to 40A) with 12" cable compliant with 2017 NEC Section 625.17(A)(3) / Hardwired (up to 48A)
<b>Enclosure</b>	IP66 indoor/outdoor



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## Safety Features

The Emporia Smart Home EV Charger was designed with your safety in mind. We've contracted with UL to consult on our design and perform critical testing on the EV Charger; however, the initial summer 2021 run of chargers will not be UL certified. Rest assured, the entire Emporia EV Charger is manufactured to comply with the safety criteria defined by these international standards: **NEC 625** - Electric Vehicle Charging System Equipment; **SAE J1772** - Electric Vehicle Conductive Charge Coupler Standard; **UL 817** - Cord Sets and Power-Supply Cords, **UL 991** - Safety Tests for Safety-Related Controls Employing Solid-State Devices; **UL 2231** - Standard for Personnel Protection Systems for Electric Vehicle Supply Circuit; **UL 2251** - Standard for Plugs, Receptacles and Couplers for Electric Vehicles, and **UL 2594** - Standard for Electric Vehicle Supply Equipment. The Emporia EV Charger employs the following safety features as defined by these standards:

<b>Ground Fault Interrupt</b>	15mA to 20mA trip sensitivity to protect against electric shock.
<b>Internal Temperature</b>	Charging station internal temperature is continuously monitored and shut off if the board temperature exceeds 98° C.
<b>Missing Ground Detection</b>	Safety ground is constantly monitored during operation. Charging is shut off if the ground is missing.
<b>Pilot Signal</b>	EV connector / cable is de-energized when exposed to a strain that could result in the exposure of live parts.
<b>Power interlock</b>	EV connector / cable is de-energized when uncoupled from EV.
<b>Self Check</b>	Sequence performed during start up, every three hours, and before charging to ensure unit is working properly and safely upon power-up.
<b>Stuck Relay Detection</b>	Check to ensure relays are functioning properly and providing proper power gating.
<b>Surge Detection</b>	Constantly monitors for power surges during operation. Charging is shut off if a surge is detected.
<b>Ventilation Required</b>	Checks for ventilation requests from EV and prevents charging if ventilation is not available.