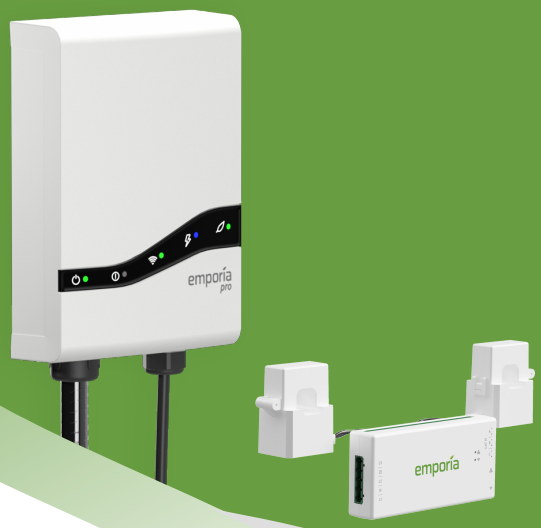
emporia pro



Level 2 Charging, No Panel Upgrade

Maximize EV charging speeds without costly electrical panel upgrades. PowerSmart technology automatically adjusts charge rate based on total home energy use and your panel's service rating. The software uses the data from the included Vue Home Energy Monitor, which sits inside your electrical panel.

Advanced Home Energy Management

The Emporia Pro empowers EV owners to save money, enhance safety, and reduce their environmental impact with intelligent home energy management tools. Charge your vehicle with excess solar power, manage peak demand power usage and automate energy savings.

Speed and Power

Swift and efficient charging for all electric vehicle models. Maximum power of up to 11.5kW (48 Amps) with a hardwired setup or 9.6kW (40 Amps) with a NEMA 14-50 outlet connection.

Reliable and Safe

The Emporia Pro is UL certified and NEMA 4-rated for reliable all-weather use, and safe for indoor or outdoor installation.

Hardware

- Level 2 /48 amp
- Hardwire and NEMA 14-50 configurations
- Outdoor rated
- Energy Star
- UL Certified
- 25-foot charging cable
- 2.4 GHz WIFI
- NACS or J-1772 Connectors
- Integrated Cable Management

Smart Features

- PowerSmart Load Mgt
- Excess Solar Charging
- Peak Demand Management
- Custom charging scheduling
- Real-time charging rate
- Monthly Charging Report
- Time of use scheduling

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Emporia Pro Smart EV Charger

General Specifications - Emporia Pro Level 2 EV Charger

Input Voltage	208/240 VAC 50/60 HZ
Charge Power	11.5KW (240V/48A) / 9.6kW (240V/40A) / 10kW (208V/48A) / 8.3kW (208V / 40A)
Connector	Connector 25' cable SAE J1772 or NACS connector with built in UHF sensor that opens the Tesla charging port
Connectivity	Wi-Fi 2.4GHz IEEE 802.11.b/g/n
Install Methods	NEMA 14-50 Plug (up to 40A) with 25" cable, Hardwired (up to 48A)
Required Breaker	Dedicated 50A+ dual pole for 40A Dedicated 60A+ dual pole for 48A
GFCI	For safety reasons, the Emporia Charger uses an internal GFCI breaker. It is recommended that the charger be installed on a non-GFCI panel breaker to avoid nuisance tripping. If local electrical code requires a GFCI panel breaker for a NEMA 14-50 plug circuit, Emporia recommends purchase of the hardwire version of this charger.
Enclosure	Watertight NEMA Type 4 Indoor/Outdoor
Temp Range	-22°F to 122°F (-30°C to 50°C)
Dimensions	310 x 205 x 77mm
Ventilation	No ventilation needed.

Safety & Environmental Features

The Emporia Pro Level 2 EV Charger is manufactured to meet the safety criteria defined by these international standards: NEC 625 – Electric Vehicle Charging System Equipment; SAE J1772 – Electric Vehicle Conductive Charger Coupler Standard; SAE J3400 – North American Charging Systems (NACS) for Electric Vehicles; UL 817 – Cord Sets and Power-Supply Cords; UL 991 – Safety Tests for Safety-Related Controls Employing Solid Devices; UL 2251 – Standard for Plugs, Receptacles, and Couplers for Electric Vehicles; UL 2594 – Standard for Electric Vehicle Supply Equipment.

Certifications	Safety: UL 2594 (E528156) EMC: FCC, ISED Efficiency: Energy Star
Ground Fault Interrupt	15mA to 20mA trip sensitivity to protect against electric shock.
Missing Ground Detection	Safety ground is constantly monitored during operation. Charging is shut off if the ground is missing.
Plug Removal Safety	EV connector / cable is de-energized when uncoupled from EV.
Vehicle Ventilation Required	Checks for ventilation requests from EV, which are not supported, and stops delivering power to the vehicle.

General Specifications - Vue Energy Monitor

Supported system configurations:	Single phase, 2-wire systems (Up to 240V) Single-split phase, 3-wire systems (Up to 240V/480V LN/LL) 3-phase, 4-wire Wye systems with earthed (TN or TT) neutral (no-Delta) (Up to 240V/415V LN/LL) *Additional equipment required
Measurement Accuracy	+/-2%
Maximum voltage sense range	264VAC L-N per channel
Voltage Measurement Channels	3
Current Measurement Channels	200A: 3 50A: 16
Wi-Fi	2.4 GHz IEEE 802.11b/g/n
Ethernet	10/100Base-T, IEEE 802.3
Operating conditions	-40° to 122° F (-40° to 50° C) | 0 to 80% RH Up to 3,000 meters
Certifications	Safety: UL 61010, UL 2808 (E535044) EMC: FCC, ISED, CE, PSE, UKCA
Measurement Category	200A CT Ports: Measurement Category IV 50A CT Ports: Measurement Category III
CT Wire Length	1m, easily shortened as necessary
CT Inside Diameter	200A CT: 22mm 50A CT: 10mm