

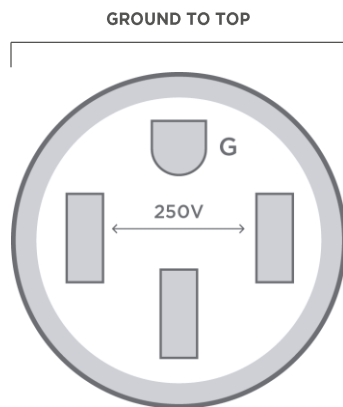


INSTALLING YOUR **240 VOLT OUTLET**

The recommended home charging installation for Tesla vehicles is a 240 volt NEMA 14-50 outlet. This outlet is commonly used for electric ranges and large recreational vehicles. Installed with a 50-amp circuit breaker, this outlet enables a recharge rate of about 25 miles per hour.

Consult a licensed electrician to review the electrical load of your home prior to installation. They will design your charging system and obtain a permit for a general purpose NEMA 14-50 outlet from your local building department. After installation, the electrician will schedule an inspection to approve the new electrical circuit and design.

This guide provides reference for specifications to install this outlet. Since each installation is custom to the home, all hardware for the NEMA 14-50 outlet will be provided by your electrician.



NEMA 14-50 DETAILS

- **Voltage:** Single phase, 208-250 volt AC supply, 60 hertz
- **Circuit Breaker:** 50 amp (125% overcurrent protection)
- **Operating Current:** 40 amp (maximum continuous current)
- **Conductors:** 6 AWG, Copper Wire Only. Upsize wiring for installations over 150 feet
- **Ground Fault Circuit Interrupter:** Not required
- **Service Disconnect:** Not required
- **Receptacle Recommendation:** High quality, industrial grade receptacle
Examples: Hubbell part # HBL940A, Cooper part #5754N
- **Ventilation:** Not required
- **Outdoors:** Install with NEMA 3R rainproof enclosure

RECOMMENDED **LOCATIONS**



 CHARGE PORT

 RECOMMENDED LOCATION FOR 240 VOLT OUTLET

ADDITIONAL **RESOURCES**

EMAIL

CHARGINGINSTALLATION@TESLA.COM

PHONE

650.681.6133 (M-F)

24/7 TECH SUPPORT

877.798.3752

WEB

TESLA.COM/SUPPORT

ONLINE STORE

SHOP.TESLA.COM



WALL CONNECTOR

The Wall Connector is a Tesla specific charging station, hard wired and permanently mounted to a wall or post. Redesigned in Spring 2016, highlights include:

- Compatible with Model S and Model X
- Customizable power settings to fit any electrical system
- Power sharing: Link up to four Wall Connectors to a single circuit
- Two cable length options: 8.5' or 24'
- Indoor and outdoor rated

Have a licensed electrician review the electrical load of your home prior to installation. As with any home improvement project, a permit and city inspection may be required.



RECHARGE RATES FOR STANDARD AND HIGH AMPERAGE CHARGING

On-Board Charger	Circuit Breaker (Amperage)	Model S Miles Per Hour	Model X Miles Per Hour
Standard	60-amps (48A draw)	34*	30*
High Amperage	90-amps (72A draw)	52*	46*

*Numbers based on a 90D configuration and 240-volt power supply. Recharge speeds may vary. Refer to the Wall Connector installation guide for additional power level options.

RECOMMENDED LOCATIONS



 CHARGE PORT

 RECOMMENDED LOCATION FOR 24' CABLE

 RECOMMENDED LOCATION FOR 8.5' CABLE

ADDITIONAL RESOURCES

EMAIL

CHARGINGINSTALLATION@TESLA.COM

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HIGH POWER CHARGING

THE FASTEST WAY TO CHARGE AT HOME

DUAL CHARGERS



THE FASTEST WAY TO CHARGE AT HOME

58 MILES OF RANGE PER
HOUR OF CHARGE

A Wall Connector is installed on a 240 volt circuit and can be supplied with up to twice the amperage as an outlet. At maximum amperage it supplies two times more power than the Single Charger can process. This is where Dual Chargers come into play, doubling the charging capacity to 20 kW to match the output of the Wall Connector.

There's more to the story, learn about [Dual Chargers](#) >

Model S Charging Vocabulary



110V Outlet



240V Outlet



Tesla
Mobile
Connector



Tesla
High Power Wall Connector



Twin charger(s)



CHARGE YOUR MODEL S