



# How to: pick the right home EV charger


Avoid paying extra or changing your driving habits.

Fastest is not necessarily best and will cost you more. Most charging takes place at night and at work, so having a slightly faster charge while you sleep likely won't matter much. But it will increase the cost of installation, equipment and your monthly electric bill. You can reduce the cost of going electric by choosing the right electric vehicle (EV) charger to fit your driving habits.



  
**37 miles per day**  
Average distance Americans drive <sup>1</sup>

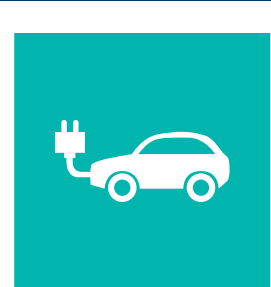
  
**0.35 kilowatt hours (kWh)/mile**  
Typical EV efficiency <sup>2</sup>

  
**99 minutes**  
Average recharge time for daily EV usage with a 7.7 kW Level 2 charger

## Pick the right EV charger for your needs

- How many miles do you drive a day?
- Can you charge at work or on the go?
- What type of charging does your EV support?
- What is the capacity of your home electric panel?

If you're able to charge at home overnight, you can get approximately 130 miles of range in six hours with a 7.7kW Level 2 charger. The question is how much charge does your EV need to get you where you need to go without range anxiety? If you can access convenient and free charging at work, it might not be much.



# Typical home EV chargers

Charger type	Power rating	Connection	Time to recover daily use (37 miles)**
Level 1	1.4 kW	Standard wall receptacle (120V)	532 minutes (8.9 hours)
Level 2	7.7 kW	Properly rated 240V receptacle or direct hardwire to circuit breaker in panel	99 minutes (1.7 hours)
Level 2	9.6 kW	Properly rated 240V receptacle or direct hardwire to circuit breaker in panel	80 minutes (1.3 hours)
Level 2	11.5 kW*	Direct hardwire to circuit breaker in panel	67 minutes (1.1 hours)

\* Plug-in electric vehicles may not support higher charge rates. Be sure to check what charge rates are supported by the electric vehicle.

\*\* This data reflects how long it will take to recover the charge for an average (37 miles) daily commute



## Safe, efficient installations require expertise.

Check with an electrician to understand what type of EV charging your home electrical panel can support. And whatever charger you select, work with a trusted electrician to install it safely. Reach out [Eaton's certified electrical contractor network](#) to find an electrician near you.