



# Different types of evse

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There are three primary types of EVSE to vehicle connections:

They come in various forms, including standalone boxes, wall-mounted units, pedestals, and towers.

Before we can talk about connectors, we need to talk about charging speeds. There are 3 "levels" of charging, using different methods and resulting in different speeds:

\* Level 1 (slowest)\* Level 2 (medium speed)\* DC Fast or unofficially "Level 3" (Fastest)

Level 2 is the best way to charge at home. You may have a 240v outlet in your home already, these are the bigger outlets that often power electric ovens and clothes dryers. If you have one of these near where you park, like an outlet meant for laundry in the garage, you may be able to buy a plug-n-play EVSE cable to use that existing outlet (again, check with an electrician to be sure suitable and in good health).

If you don't have one of these outlets in your home, you can hire an electrician to install one, or hardwire a 240v EVSE wall charger. The cost of this will depend on how much extra power capacity your home has, and where power needs to be run to reach your parking area. It can cost anywhere from \$500 to \$5000 depending on your circumstance. Luckily there are many incentives available from state and local government as well as power utilities on the installation of this equipment, so be sure to check for incentives near you.

Level 2 isn't just in the home, it's also the most popular plug in public. These plugs can be found in the parking lot of grocery stores, office buildings, hotels, etc. keep in mind, they're not that fast. They are more meant for topping up while you're running errands.

Side note: why 80%? You'll often see charge times listed up to 80%, because an EV charges much faster between 0-80%. After 80%, the speed drops way down. In fact, the final 20% charge can take just as long as the initial 80%, so it makes sense to charge only to 80% unless you REALLY need 100% of your range in that moment.

Level 1 is slow. It'll charge a full EV in days. Level 2 is medium. It'll charge a full EV in hours. DC Fast is fast. It'll charge a full EV in minutes.

Now that we understand the 3 levels of speed, let's talk about connectors.

In North America, an EV will have one of four different connectors:

- NACS (Tesla)- CCS- J-1772- CHAdeMO



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