

# Electric Vehicle Charging

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There are three “levels” of charging: Level 1 (120V), Level 2 (240V), and DC Quick Charge. When a vehicle is charging, the number of miles of driving range added depends on the power of the charge station, vehicle capabilities, and current battery state-of-charge.

## Level 1

**3 - 5 miles of driving range added per hour of charging**

Included with the vehicle as a cordset that plugs into a standard 120V household wall outlet.

Great for overnight or workplace charging; 25-40 miles added in 8 hours.

Can handle charging needs for daily commutes under 40 miles.

Some charging stations are Level 1.



## Level 2

**10 - 25 miles of driving range added per hour of charging**

Uses a 240V circuit, typically 40 amps, similar to a cooktop or clothes dryer.

Provides complete charge from empty to full overnight.

Wall- or pedestal-mounted stations are the most common option for public charging. Cordsets and some stations can simply plug into a dryer outlet for home use.

High-amperage Level 2 stations (up to 80 amps) can charge appropriately-equipped vehicles at up to 60 miles of driving range per hour of charging.



## DC Quick Charge

DC Quick Charging generally provides the fastest charge rates and is available only at commercial locations. There are three different DC Quick Charge technologies in use. Each works only with compatible vehicles equipped with necessary hardware.

### CHAdeMO

**Up to 67 miles of range in 30 minutes**

Used by Nissan LEAF and Mitsubishi i-MiEV.

### SAE Combo

**Up to 65 miles of range in 20 minutes**

Used by BMW i3 and Chevrolet Spark EV.

### Tesla Supercharger

**Up to 130 miles of range in 20 minutes**

Used by Tesla Model S and Model X.



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