

HOME CHARGING FAQ

Why do I need a charging station for EV or PHEV?

EVs and PHEVs feature rechargeable batteries that supply energy to the vehicle. When you drive, the vehicle utilizes the battery's stored electricity. The charging station helps to refill your battery with electricity, similar to filling your current car with gas.

Isn't there already a charger on board an electric vehicle?

Yes, there is an "on-board charger" in your vehicle. The charging station helps to get AC power safely from the utility to your on-board charger. The EV's on-board charger then converts the AC power to DC energy and charges up your battery, with help from the charging station. All battery electric vehicles (EVs) and plug-in hybrid electric vehicles (PHEVs) that meet national automotive engineering standards can use a home charging station like EVSE-RS in order to replenish the vehicle's energy.

How will my home charging station work?

Your home charging station is typically mounted on your garage wall and connected to your home's electrical system. You connect the station to your vehicle when you park it, and disconnect it when you're ready to drive.

How will I know if my vehicle is charged up?

The charging status is indicated by several lights on the charging station.

Can I stop the charging station before it's at 100%?

Just as you can stop refueling a gas car before the tank's filled, you can also stop charging your vehicle before the battery is fully recharged by pressing the "stop" button then disconnecting the home charging station.

Does it stop automatically?

The home charging station knows when it's done charging, and will stop charging automatically. You will still need to disconnect the station's connector from the vehicle before you drive away.

Where will I put it?

The charging station is typically mounted on your garage wall near where you park your car. Unlike most gas cars, the EV "plugs" can be located in the front, near the hood.

Who will install it?

Only a professional, licensed electrician should install your charging station to ensure that it works properly and meets all applicable code requirements.

How much will my home charging station cost?

The actual cost will vary according to the site conditions for installation and local requirements. After completing a site assessment at your home, the installer will provide a firm quote based on what is required for your installation.



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Home Charging FAQ (cont.)

How fast does it charge?

The home charging station is designed to fully charge your EV or PHEV within a maximum of eight hours. The charge time can be much less, depending on the amount of charge remaining in the battery when you begin the charging process.

Is it safe?

The home charging station is designed with safety and reliability in mind, and will be listed by the Underwriter's Laboratory, the same people who certify other electric appliances in your home.

What if rain gets in the garage?

The home charging station is rated for outdoor use.

What is the voltage requirement to run the home charging station?

The charging station is hardwired into a 240V dedicated circuit.

When the home charging station stops charging, does it stop drawing power?

The home charging station is energy-conscious and stops drawing all but minimal power to provide energy to the LED lights.

What's different about the AeroVironment-Ford charging station?

The AeroVironment-Ford charging station is made by AeroVironment (AV) www.avinc.com, a technology company that has been on the leading edge of electric vehicle charging technology since the 1980s. AV played a key role in developing the prototype of the first mass market EV, has a line of testing equipment used widely by EV manufacturers to test their technologies, and has been supporting industrial electric vehicles with charging systems for ten years. AV's home charging system is based on years of experience and proven technical expertise, making it an ideal solution for your home and your EV.

What if I live in an apartment?

Various charging configurations for apartment garages and other multi-family housing situations are being developed for your EV or PHEV. Find out more at www.evsolutions.com

What if I rent my house/don't own my house?

If your landlord agrees, the station can be installed in your garage and uninstalled when you are ready to move.

Who will service my home charging station?

Only professional, licensed electricians should service your home charging station. All service calls for your AeroVironment home charging station are guaranteed a response within 24 hours. A convenient toll free number is available to you anytime should you have any questions or concerns. Call 888-219-6747.



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Home Charging FAQ (cont.)

How do I know if it's charging?

An LED light will let you know when it's charging.

How do I get a home charging station?

You can purchase your charging station at <http://www.evsolutions.com.ford>

What if my EV runs out of charge while I'm on the road?

Your EV is equipped with a charge gauge similar to your gas vehicle designed to avoid any surprises. There are plans for public charging stations located across the United States, in cities and major travel corridors. Many cities already have committed to electrification to make EVs more practical for drivers.

Do I have to install a home charging station to charge my car at home?

There are two options for home charging:

“Opportunity Charging” is accomplished with the Level 2 home charging station, which requires a 240V dedicated circuit and is designed for a full charge within eight hours under normal circumstances. We call this “opportunity” charging because you will probably use the home charging station while engaged in other at-home activities such as sleeping, enjoying dinner, or watching TV. Remember, you won't need a full charge from 0 to 100% every time. You may get into the habit of charging opportunistically whenever your EV is at a half “tank,” low, or nearly full, just because it's easy.

“Trickle Charging” describes the process of plugging your EV into a regular 120V wall socket and “trickle” charging your car in emergency situations, when a more practical charging regimen isn't available. Your EV comes equipped with trickle charging equipment, but a full charge will likely take about twenty hours and may require a dedicated “plug” to be installed in your garage.

What other kinds of charging options are there, besides home charging?

“Public Opportunity Charging.” Versions of the 240V home charging stations are planned for public and semi-public installation at certain workplaces, as well as shopping malls, retail stores, and other places where drivers have planned stops for a few hours and can charge while taking care of other business.

“Quick Charging.” Additional charging infrastructure is planned for installation at public charging locations similar to gas stations for situations when you need to “fill up” in the middle of a long trip, or find your EV is low on charge. These chargers are designed to deliver a full charge to your EV's battery in minutes instead of hours, using a charger from the same company that developed the Ford home charger.

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