

At-Home EV Checklist



Ameren has developed this at-home charger installation checklist to help ensure customers have everything they need to safely charge their vehicle at home.

Please contact EVMissouri@ameren.com with any questions.

1 Decide What Level of Charging Is Right for You

Consider battery size, travel miles and amount of time needed to charge.

Level 1: Use the EV charging unit or cord. This can plug into your standard wall outlet of 120-volt.

Level 2: You will need to install a 240v circuit to connect the Level 2 charging unit.

		Level 1 Charging	Level 2 Charging
1.	How many miles do you drive per day?	1 to 50 miles	51+
2.	Do you require 100-200 miles of range in a single charge?	No	Yes
3.	Are you able to charge the vehicle for at least 7 hours each evening?	Yes	No
4.	Do you have access to workplace charging?	Yes	No

2 Research Home Charging Units

There are many models of at home chargers available to consumers today. Many vehicles may even come with a Level 1 or Level 2 charging unit.

Some “smart chargers” are wi-fi enabled and will provide a summary of energy usage and allow you to schedule your charging sessions. It’s important to note, however, that many vehicles offer the same capabilities through in-vehicle telematics.

Be sure to determine what attributes are important to you and research models that will meet your needs. You can use our free charger comparison tool at AmerenMissouri.com/Charging to find a charging solution.

3 Find a Certified Electrician

Ameren Missouri makes finding a qualified electrician easy with the [Ameren Missouri Electric Vehicle Partner \(EVP\) Network](#). Electric Vehicle Partners have professional knowledge of current EV chargers, available incentives and are a valuable resource to help customers safely charge at home. Check out our directory by visiting AmerenMissouri.com/EVP.





4 Conduct a Site Visit and Obtain a Quote

Safety always comes first at Ameren. That's why we recommend having a qualified electrician conduct a survey/site visit before plugging in your vehicle, even if no panel upgrades are needed. A quick survey by an electrical contractor can determine if your home has adequate electrical capacity for electric vehicle charging. Depending on the size and age of the home, there may not be sufficient electrical capacity, meaning a new electric service panel may have to be added.

Be sure to discuss:

- Any required upgrades
- The type of charger you want (Level 1 or Level 2)
- Preferred installation location (inside or outside, ensuring the cord can safely reach the vehicle's charging port)
- The cost of installation
- Project timeline
- Required permits and who will apply

5 Select an Electrician and Install

Once you have chosen a charging unit, reviewed bids to select an installer, identified a location for your charger and have received permits (if applicable) - it's time to install the equipment!

Keep in mind, a federal tax credit may be available. You may be able to save up to 30% (up to \$1,000) for residential charging installation.

6 Plug In and Charge!

Congratulations! You are ready to charge your EV! Plug in whenever you need and enjoy all the benefits of driving electric!

Once your equipment is installed, you can charge from the convenience of your home. Be sure to explore rate options that save you money when you charge overnight and leverage your vehicle telematics or Wi-Fi-enabled charger to schedule charging sessions to maximize your savings.

For more information about electric vehicles (EVs) visit AmerenMissouri.com/EV.

