

# Electric Vehicles: Safe Charging at Home

## SAFETY TIPS

- Use devices that are listed by a qualified testing laboratory.
- Read and follow all manufacturer directions.
- Check chargers and cords for damage before using. Never use if damaged.
- Do not use extension cords with the charger.
- Install charging equipment in safe locations. Keep away from busy areas and things that could catch fire.
- Keep charging items out of reach of children and animals when not in use.
- Cover charging station outlet to keep water out.
- Before charging an electric vehicle at home, have a qualified electrician:
  - ~ Check your electrical system to see if it can handle charging.
  - ~ Install a new circuit just for your charging device.

## Warning!

- ⚡ Electric vehicles have high voltage batteries.
- ⚡ Battery maintenance should be performed by the manufacturer.
- ⚡ Do not touch the orange high voltage cables.



### For Level 1 Charging:

- Use the charging cord that came with the electric vehicle.
- Use a standard household plug.
- Make sure charger or outlet has GFCI protection.
- Use only a dedicated circuit to charge.

### For Level 2 Charging:

- Use a 240-volt outlet. A qualified electrician needs to install this type of outlet.
- Only use outdoor rated charging stations outdoors.
- Keep cords off the ground.



**NATIONAL FIRE  
PROTECTION ASSOCIATION**

The Leading Information and Knowledge Resource on Fire,  
Electrical, and Related Hazards