

ELECTRIC VEHICLE CHARGING SYSTEM SAFETY – STANDARDS AND PRACTICES

Single Vehicle Charging System Installations



These **Electric Vehicle (EV) charging system safety practices** are for customers that have or are considering the installation of a single vehicle charging station.

- **Make sure the contractor or installer is licensed and follows applicable codes and standards, including:**
 - Charging equipment listed to UL 2594, 2202, 2231, 225, 1564
 - For installations involving reverse power flow (bidirectional charging), make sure the inverter is listed per UL 1741 SA
 - For utility interconnection rules and standards involving bidirectional systems, see the [SCE Grid Interconnections website](#)
 - For vehicle-based batteries used as home backup power:
 - The system should be listed by the manufacturer to provide this function
 - The system must be installed with a load isolation switch
 - Install per California Electrical Code Article 625
 - Hardwired, installed equipment is preferred over plug-in connections
 - Use of plug adapters is not recommended

Please note that your local Authority Having Jurisdiction (AHJ) may have additional requirements or special interpretations of these standards.

- **During Operation:**
 - Note the location of circuit breakers and disconnect switches
 - Regularly inspect plugs and connections for visible signs of wear, damage, or overheating, such as black marks or deformed plastic
 - Pay attention to any unusual sounds or smells and cease operation until properly inspected by qualified personnel

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