

Electric Vehicles Glossary

AV	Autonomous Vehicle	A self-driving car, also known as a robot car, or driverless car.
BEV	Battery Electric Vehicle	Vehicles that derive all power from battery packs and thus have no internal combustion engine, fuel cell, or fuel tank.
DCFC	DC Fast Charging	Fast commercial-grade chargers typically located in public areas. Sometimes known as a SuperCharger (Tesla trademark).
EVSE	Electric Vehicle Supply Equipment	The technical term for charging stations or charging docks.
FCEV	Fuel Cell Electric Vehicle	EVs which use fuel cells to power their electric motor. The fuel cells create the electricity to power the EV.
G2V	Grid-to-Vehicle	A system in which EVs communicate with the power grid to sell grid services by either returning electricity to the grid or by throttling their charging rate.
ICE	Internal Combustion Engine	Fuel-powered engine found in most common vehicles.
PEV	Plug-in Electric Vehicle	See BEV
PHEV	Plug-in Hybrid Electric Vehicle	A car with a combination of a traditional internal combustion engine and a rechargeable battery, allowing for either pure electric-powered driving or extended range from a combination of the petrol engine and electric motor.
PIV	Plug-In Vehicle	A blanket term for any vehicle with a plug socket, including BEVs and PHEVs.
SAEV	Shared Autonomous Electric Vehicle	A combination of an autonomous vehicle with a ride-sharing system such as Uber or Lyft.
V2G	Vehicle-to-grid	See G2V

CHARGER TYPE	DESCRIPTION	VOLTAGE	COST
Level I (Trickle charging)	Using a standard AC house outlet to charge an EV	120V	N/A
Level II (Slow charging)	AC charging via an installed charger	240V	\$500-\$5000
Level III (Fast charging) (Supercharger)	DC fast charging, commercially-installed charger	Up to 500V	\$10K - \$50K

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