

Chapter 12

NAME _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1. What are the typical charging rates for level 3 (DCFC) chargers?

2. What is the difference between a hybrid electric vehicle (HEV) and a plug-in hybrid vehicle (PHEV)?

3. What precautions are needed when charging a vehicle using a level 1 charging cable that comes with the vehicle?

4. What are some of the smart phone apps that can be used to locate charging stations?

5. What are the voltage and amperage used to power a level 2 charger at home?

Answer Key

Testname: EV1SHORT12

1. Level 3 charging stations use 440/480 volts AC input and outputs DC to charge most electric vehicles. Level 3 chargers charge the vehicle using direct current (DC) at a rate up to 125 amperes.
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2. A plug-in hybrid electric vehicle (PHEV) is a vehicle that is designed to be plugged into an electrical outlet at home, at work, or when traveling to charge the batteries. By charging the batteries in the vehicle, it can operate using electric power alone (stealth mode) for a longer time, thereby reducing the use of the internal combustion engine (ICE).
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3. -Uncoil the cord before connecting the plug to an electrical outlet. If the cord is kept on the charger reel, heat can build up during charging that can cause the insulation to melt. Always unroll the entire length of the charge cord before charging.
-Plug the charging cord directly into a dedicated 110/120- volt, 20-ampere outlet. Do not use an extension cord.
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4. There are numerous smart phone apps that can be used to locate charging stations including:
 - Charge Point
 - Charge Way
 - Electrify America
 - Drive the Arc
 - EV Match
 - Plug Share
 - Pod Point[Page Ref: 173-174](#)
5. Level 2 chargers uses 208/240 volts. Level 2 chargers can be added to most houses, making recharging faster (up to 80 amperes) when at home, and are the most commonly used charging stations available at stores and colleges. A 208/240-volt Level 2 charger rated at 30 amperes will deliver 7.2 kW ($240 \times 30/1000$).
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