## **Electric Vehicles 101**

## **U.S. Charging Options**



All cars can use Level 1 and Level 2; but not all can use DC Quick Charging.

Level 1 - Required equipment is included with the car; J-1772 connector to 120VAC outlet

- WHERE FOUND: The cordset is supplied with your car. Plugs into your existing 120VAC household wall outlet.
- · WORKS WITH: All U.S. plug-in cars.
- CHARGING SPEED<sup>1</sup>: 3-5 miles of driving range added per hour charging. 25-40 miles added during 8 hour workday.



**Level 2** – Provides complete charge overnight empty to full; common public charging; wall or pedestal mounted J-1772 connector

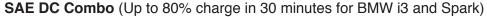
- WHERE FOUND: Residential garage or carport; public charging at malls, parking lots, etc. At home hard-wired or plugged into 240VAC 30-40 amp circuit.
- WORKS WITH: All U.S. plug-in cars.
- CHARGING SPEED1: 10-25 miles of driving range per hour charging.2



DC Quick Charge - Fastest charge; commercial locations only; certain vehicles only

**CHAdeMO** (80% charge in 30 minutes for LEAF & i-MIEV)

- WORKS WITH: Nissan LEAF (with CHAdeMO option) and Mitsubishi i-Miev.
- CHARGING SPEED1: Up to 67 miles range in 30 minutes.



- · WORKS WITH: BMW i3 and Chevrolet Spark EV.
- CHARGING SPEED<sup>1</sup>: Up to 65 miles in 20 minutes.



- WORKS WITH: Tesla Model S and future Tesla models only.
- CHARGING SPEED<sup>1</sup>: Up to 130 miles in 20 minutes.



- <sup>1</sup> Charging rates may vary depending on specifications of charge station and vehicle, and state of charge of battery.
- <sup>2</sup> Rare high-amp AC stations (up to 80 amps) can charge appropriately equipped vehicles at up to 60 miles range per hour.



This brochure produced by PlugInAmerica.org

