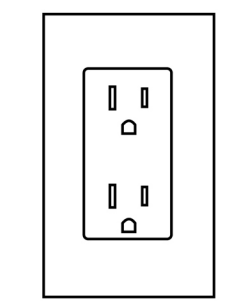
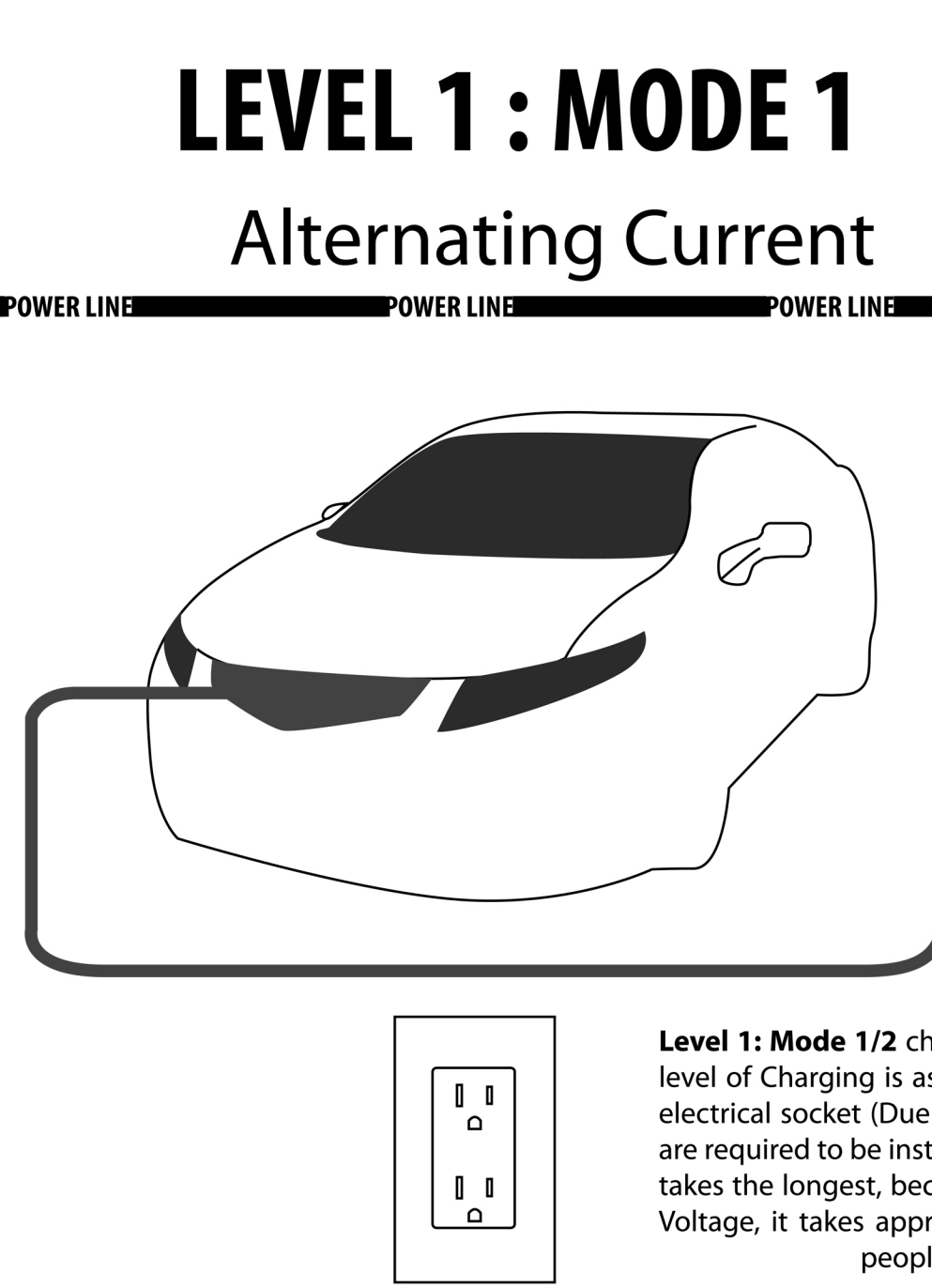


# CHARGING

## LEVEL 1 : MODE 1

Alternating Current

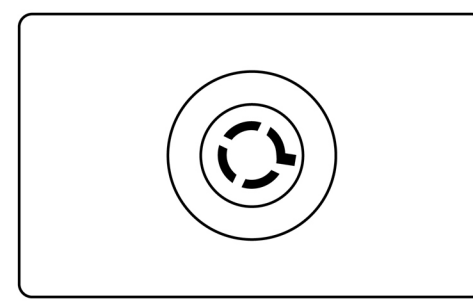
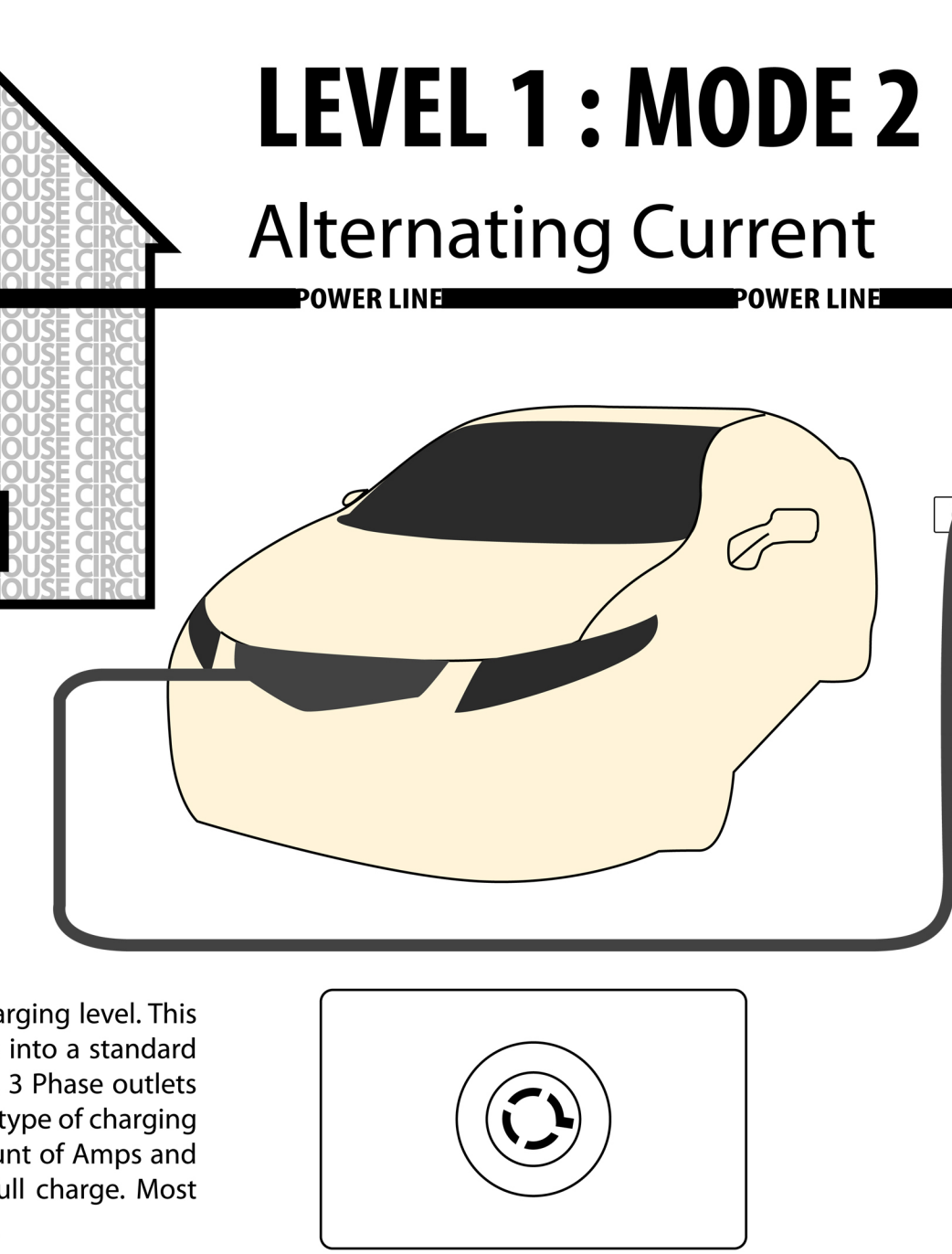


**Level 1: Mode 1/2** charging is the most basic charging level. This level of Charging is as simple as plugging a lamp into a standard electrical socket (Due to safety reasons in the US, 3 Phase outlets are required to be installed by an electrician). This type of charging takes the longest, because it has the lowest amount of Amps and Voltage, it takes approximately 6-8 hours for a full charge. Most people charge overnight at home.

Charge Time: 6 - 8 Hrs. Current: 16 A Voltage: 230 VAC

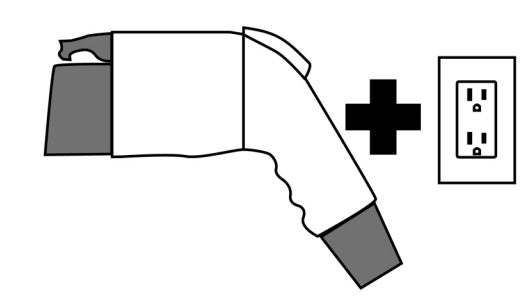
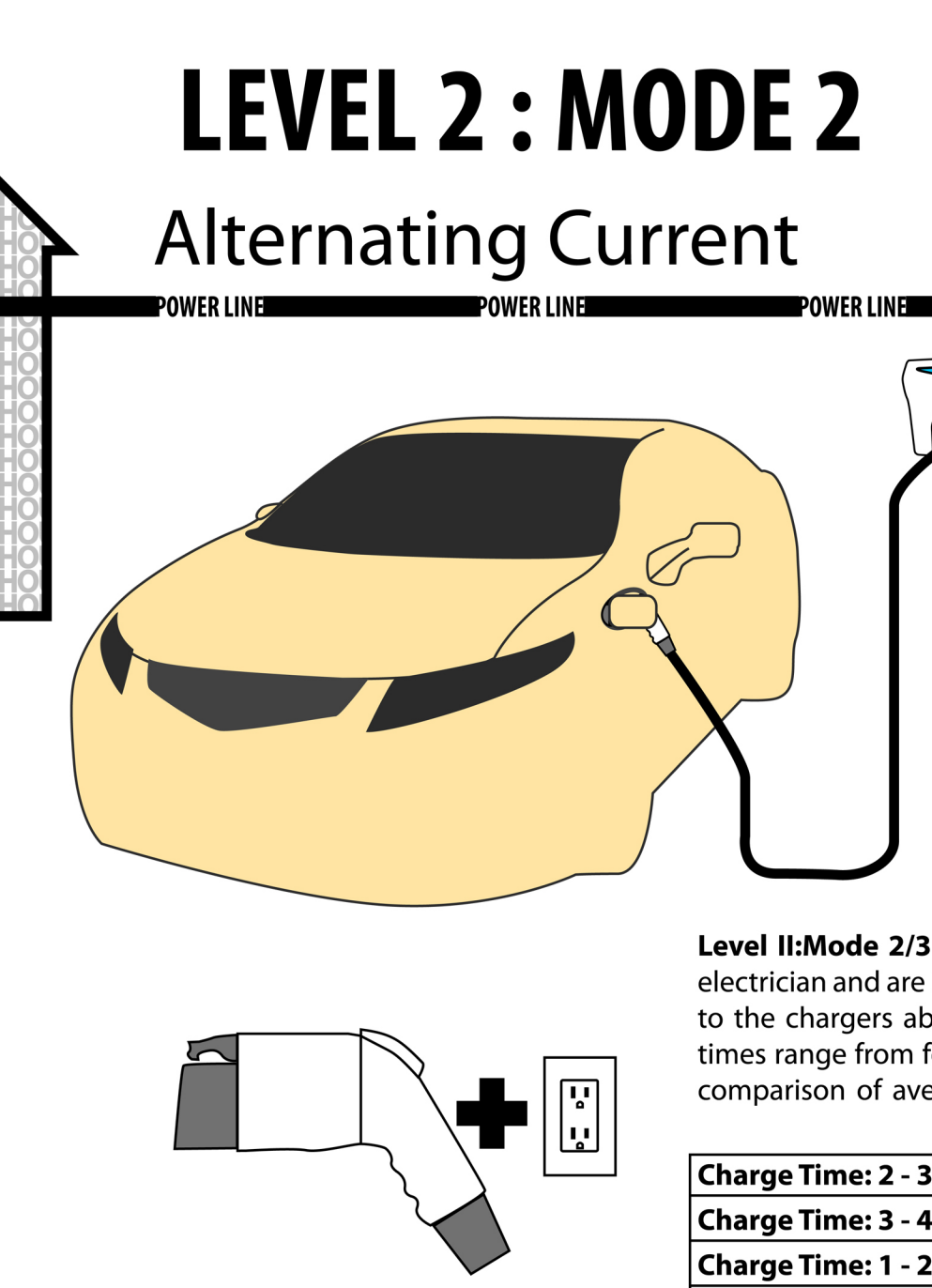
## LEVEL 1 : MODE 2

Alternating Current



## LEVEL 2 : MODE 2

Alternating Current

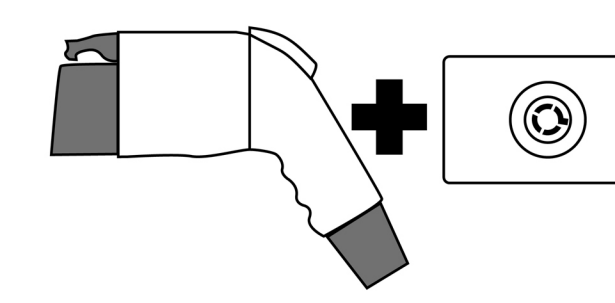
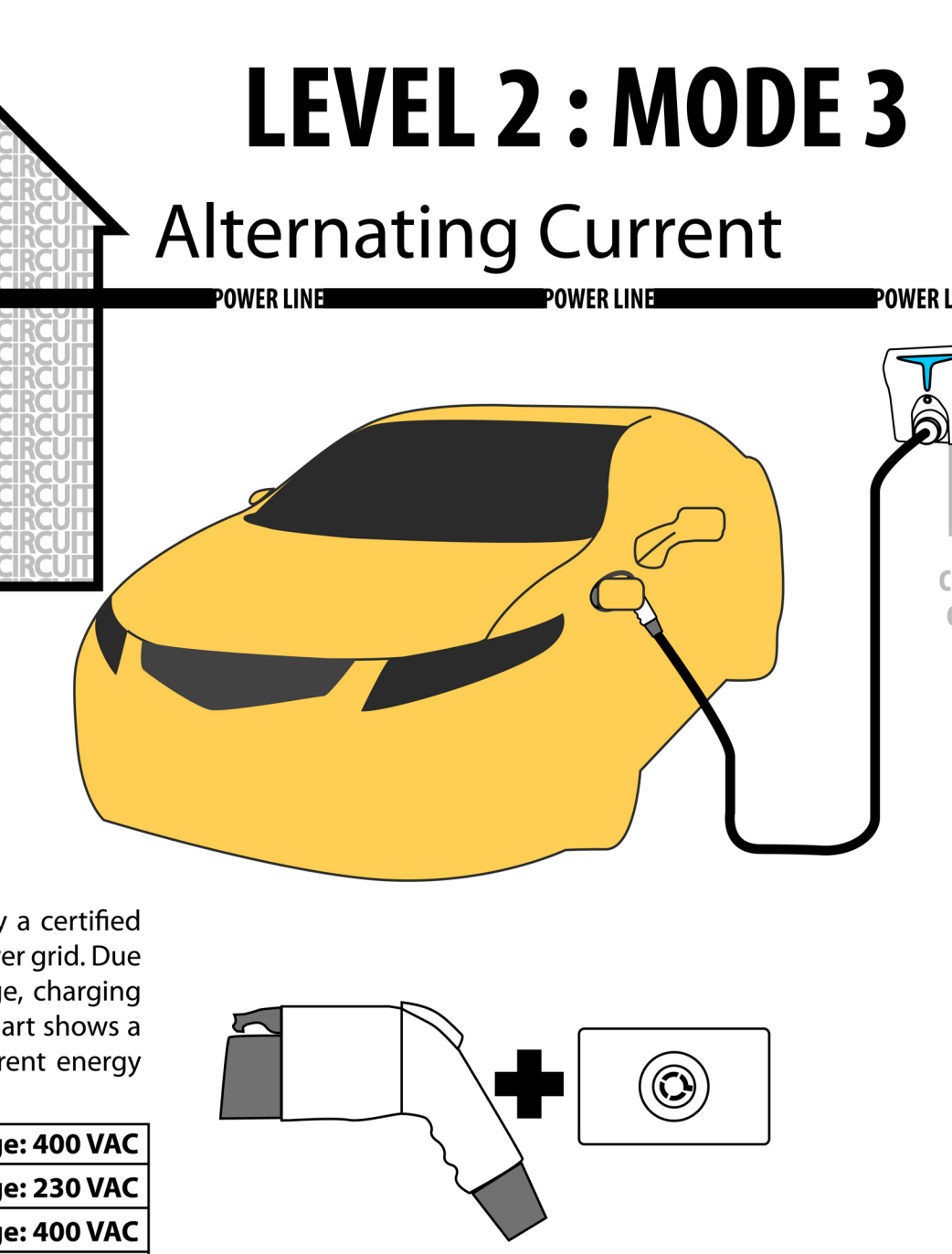


**Level II: Mode 2/3** chargers require installation by a certified electrician and are hardwired into the regional power grid. Due to the chargers ability to change amp and voltage, charging times range from four hours to 30 minutes. The chart shows a comparison of average charging times with different energy loads.

Charge Time: 2 - 3 Hrs.	Current: 16 A	Voltage: 400 VAC
Charge Time: 3 - 4 Hrs.	Current: 32 A	Voltage: 230 VAC
Charge Time: 1 - 2 Hrs.	Current: 32 A	Voltage: 400 VAC
Charge Time: 20 - 30 Min.	Current: 63 A	Voltage: 400 VAC

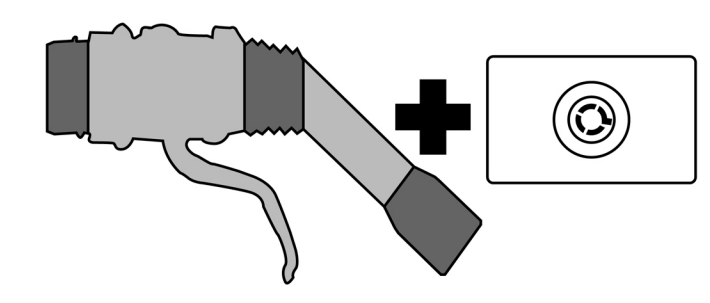
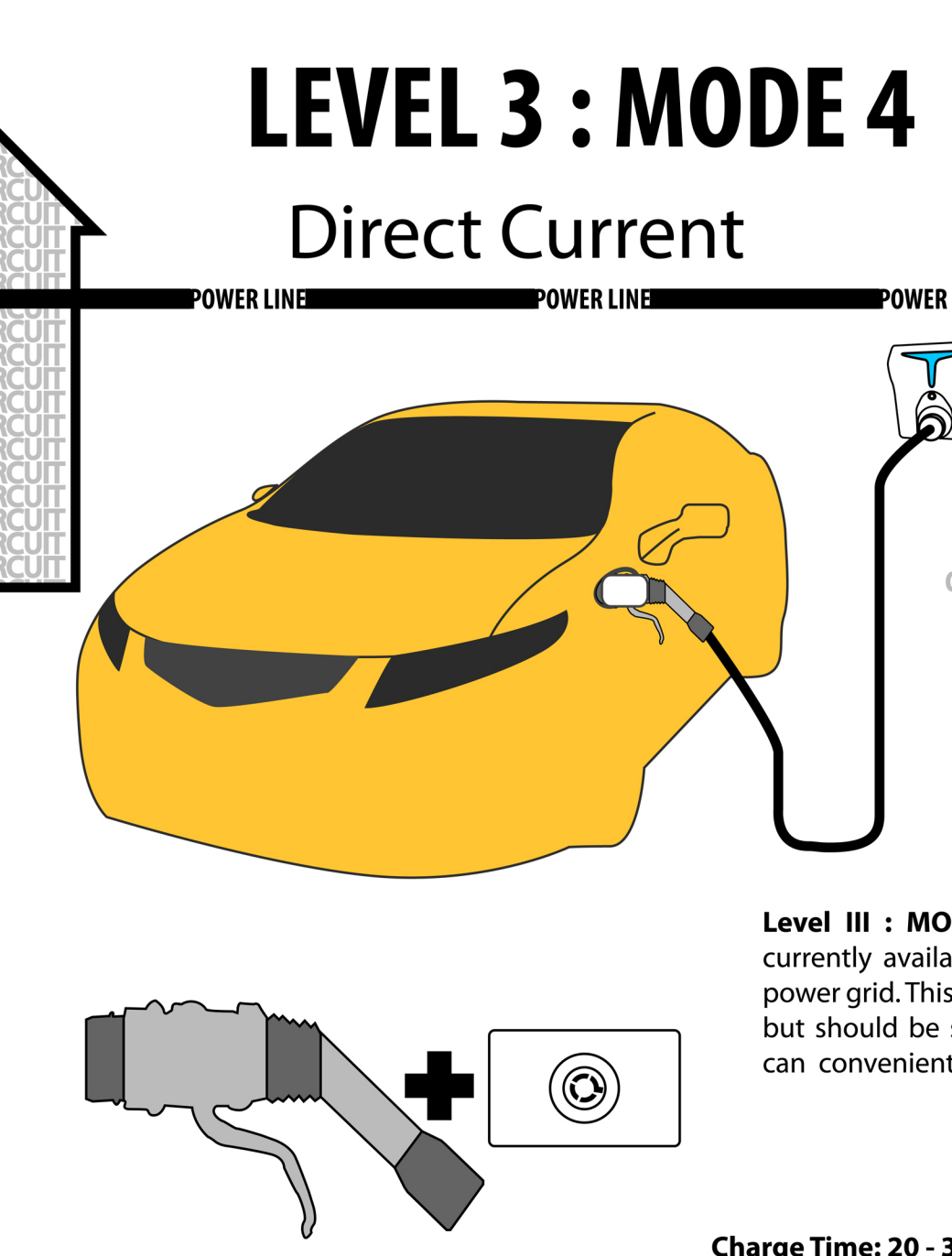
## LEVEL 2 : MODE 3

Alternating Current



## LEVEL 3 : MODE 4

Direct Current

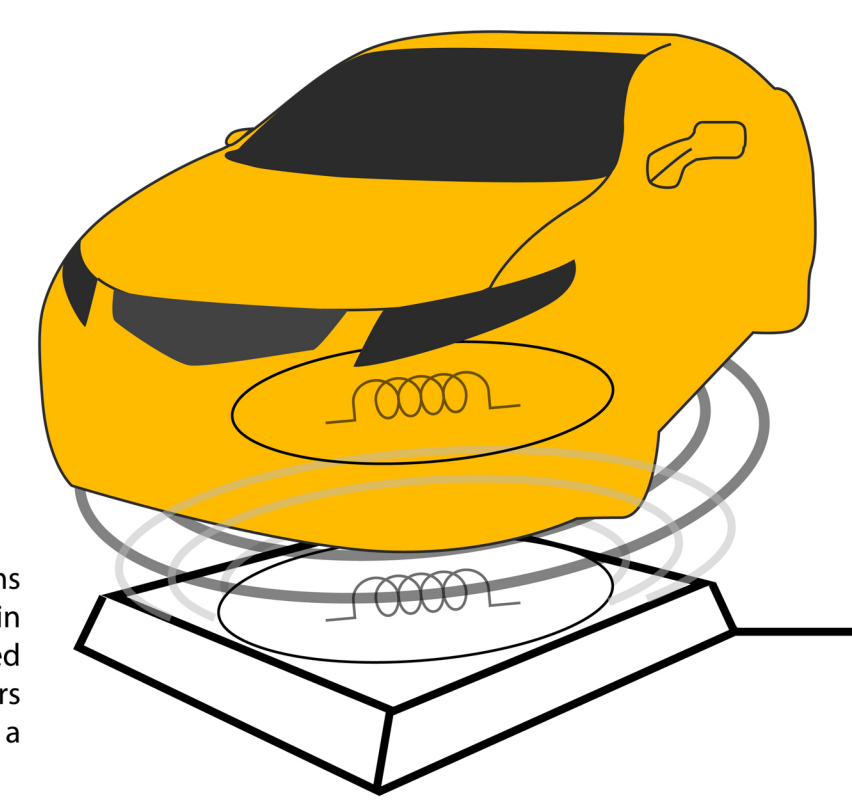


**Level III : MODE 4** chargers are the fastest charging systems currently available. Like level II they are installed into the main power grid. This type of fast charging has not yet been standardized but should be shortly. Standardization is important so EV drivers can conveniently charge at any station and not need to find a station with their specific plug.

Charge Time: 20 - 30 Min. Current: 100 A - 125 A Voltage: 400-500

## WIRELESS CHARGING

Alternating Current & Direct Current



**Wireless charging** is a quickly rising technology. The car can be charged without a plug. This is, by far, the most convenient and efficient charging method for the owner. An electromagnetic flux between a pad on the bottom of the car and a pad on the ground generate energy. When the car drives over the base pad, the charge automatically occurs. The potential of this technology is amazing and its applications seem endless.

Charge Time: 15 Min.