Ev charge speed calculator

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Stephen specializes in all aspects of the automotive world and has been an automotive enthusiast since childhood. He follows the global automotive industry closely, with an eye on the latest vehicle technologies.

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The actual time it takes to charge the battery of an electric vehicle (EV) depends on a variety of factors. These include the charger’s power output, the size of the EV’s battery, and the EV’s current charge level, also known as its state of charge (SOC).

The capacity of an EV’s battery is measured by the number of kilowatt-hours (kWh) of energy it can hold. The charger’s power output will determine the speed of the charge and is measured in kilowatts (kW).

In other words, the amount of time it takes to charge in hours is equal to the size of the battery in kilowatt-hours divided by the charging power multiplied by .9, which is the average power efficiency.

For example, let’s estimate the charging time required for a 2021 Tesla Model 3 with a 50 kWh battery, from 0% to 100% capacity, using a 3.7 kW home charger.[1]

Because an EV battery typically has a partial charge, charging from 0 to 100% is not normally necessary. It is also possible to charge an EV battery to a partial capacity of less than 100%, which is usually recommended by EV manufacturers and will reduce the time needed to charge.

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See the average time that it takes to charge an EV’s battery to full capacity using various chargers in the chart below. Factors such as extremely high or low ambient temperatures, as well as an EV’s charge acceptance rate (the rate at which it can accept a charge at various states of charge), can affect your actual battery charging time.

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