



# Electric vehicle charging 12 kWh

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While EVs aren't that different to combustion engine vehicles in practice: the fact that they are powered by electricity throws up a lot of new things to learn when it comes to "filling up" or charging.

We've already given you the low down on two of the most popular fast-charging connector types, CHAdeMO and CCS, but now let's look at some common terminology you'll see when reading about electric vehicles, charging, and batteries.

When you think of batteries, you probably imagine the things you used to stuff in the back of a portable radio or inside your watch. Modern lithium-ion-based electric car batteries aren't too different, they're just much, much bigger.

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A kilowatt however, is a measure of instantaneous power. Appliances like televisions, computers, fridges, and electric car motors all have a watt or kilowatt rating. This is a measure of how much power they need to be continuously supplied with in order to run.

There are other factors that impact an EV's range, like aerodynamics, motor efficiency, and how much power other components use, so it's not an exact rule -- but you see the point.

The downside of large EV batteries is that they take a lot longer to charge when powered from a standard plug socket. However, it's common for large battery EVs to also support faster charging standards.

It might sound confusing, but all things considered it always pays to use the most powerful charger you can find. You'll also want to get into the habit of trying to plug your EV in every time you've stopped somewhere -- this is called top up charging.

In reality, all you have to worry about is finding a charge point with the right connector for your vehicle. Once you've plugged in and hit go, the charger and your EV's internal battery management system will take over and ensure your car charges as fast and as safely as possible.



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