



How long does a 22kw charge take

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A 22kW home EV charger is considered a fast charger due to its high power output of 22 kilowatts, and is the fastest EV charger you can have installed at home (on a three-phase electricity supply).

However, there are key differences between AC 22kW home EV chargers and DC public 22kW chargers - meaning not all EVs can take advantage of the 22-kilowatt-an-hour charging rate at home.

If you've ever wondered about the speed and capabilities of a 22kW charging point, keep reading to learn everything you need to know about as we answer how fast is a 22kW EV charger?

Technically, yes, you can get a 22kW EV charger at home; but you will need a three-phase electricity supply at home to take advantage of the 22kW power outlet. If a 22kW home charger is installed on a single-phase electricity supply, your electric car will only charge at 7kW, even if a 22kW charger is installed.

A 22kW EV charger is three times faster than a 7kW EV charger and six times faster than a 3-pin plug charger, adding 37-50 miles of range per hour. In turn, a 22kW charger can fully charge your electric car in approximately 3-4 hours and 1-2 hours to top up.

That said, the time it takes to charge an electric vehicle with a 22kW EV charger can be influenced by external factors, including battery capacity, weather conditions, and the state of charge of the EV battery when charging commences.

Both 22kW AC EV chargers and DC 22kW charging point exist. You'll find AC 22kW EV chargers at home (although not as common as 7kW) or, more typically, at certain public charging locations. Meanwhile, 22kW DC EV chargers are usually only found in public spots, most notably at supermarkets, hotels and restaurants.

Without getting too technical, any electric vehicle can use a 22kW DC EV charger, but unfortunately, not all electric vehicles can charge with a 22kW AC charger. Why? Because when it comes to discussing 22kW electric car charging, it's important to note that the charging speed of a 22kW EV charger is influenced by the vehicle's onboard charger capabilities.

While most EVs on the UK market today with a maximum onboard charging rate of 7kW (or, more specifically, 7.2kW or 7.4kW), some, like the Tesla Model 3, have unique charging power at a rate of 11kW. However, a typical electric car will have a maximum AC charging rate of approximately 7kW, meaning you won't charge any faster with a 22kW car charger.

Yes, 22kW is considered fast EV charging - as is charging your electric car with a 7kW charger.

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In short, slow charging is charging at rates of 2kW/3kW and is found with three-pin plug EV chargers. On the other hand, rapid charging is typically for charging at rates of 43-50kW, and ultra-rapid charging (which is usually found at motorway services) can be at rates of upwards of 50kW, with some reaching heights of 350kW.

It's important to consider that charging at high rates using rapid and ultra-rapid chargers consistently can damage your EV battery, which will result in a drop in your EV's range. The best practice is to only use rapid chargers and ultra-rapid EV chargers when preparing for long journeys or in emergency situations and opt for a home EV charger to ensure a healthy battery instead.

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