

22kw single phase car charger

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One of the latest developments in EV charging technology is the ability to charge at 22 kW, which can significantly reduce charging times compared to the standard 7 kW charging.

However, not all electric cars are capable of charging at this higher rate. In this article, we'll explore which cars can charge at 22 kW and how this can benefit electric car owners.

The main reason why most electric cars are not equipped to charge at 22 kW is due to the limitations of the on-board charger.

The on-board charger is responsible for converting the AC power from the charging station into DC power that can be stored in the battery. The maximum charging rate is determined by the capacity of the on-board charger.

Now you might be thinking why electric cars aren't equipped with on-board chargers that can handle a charging rate of 80 amps?

Well, that's, because UK residential properties do not have the three-phase power supply required to support a 22kW EV charger. In 99% of cases, they have a single-phase supply, which supports up to 7 kW chargers.

22 kW chargers can be installed in business properties or huge homes where three-phase power supply is very popular.

That being said, even if you have a more powerful 22kW home car charger, it won't necessarily charge your vehicle any faster if it's only capable of accepting 7kW charging at home.

However, several electric cars can charge at 22 kW, including models from different manufacturers. Some examples of electric cars that can charge at 22 kW include:

This is particularly useful for electric car owners who have longer commutes or frequently use their cars for business.

Another advantage of 22 kW charging is convenience.

With faster charging times, electric car owners can spend less time waiting for their cars to charge and more time on the road. This can help to alleviate range anxiety and make electric cars more appealing to a wider range of drivers.



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