

Fastest charging electric car 2023

Charging speed can be affected by many factors, like the weather, battery temperature, crowding of the charging station, and internal settings designed to prevent you from charging too fast -- which can damage the battery in the long run.

There isn't a standard industry measure for charging speed. So to test EVs head-to-head, the experts at Edmunds used data from the firm P3 that monitored electricity use while an EV was connected to a level-3 fast charger. The dataset also included power-request communication between the vehicle and charging station to track each battery's capacity.

The rise of electric vehicles has brought with it a myriad of benefits, from reduced carbon emissions to cost savings. However, one challenge that has consistently been a concern for potential EV buyers is charging time. Here's why fast charging is revolutionising the EV industry:

Reducing 'Charge Anxiety' - For many, the fear of running out of battery in the middle of nowhere, coupled with long charging times, has been a deterrent. Fast charging alleviates this 'charge anxiety,' ensuring that you can get back on the road in a matter of minutes, not hours.

Making Long-Distance Travel More Feasible - Remember the times when driving an EV meant meticulously planning your route around charging stations? With the advent of fast charging, long-distance travel in an EV is becoming as convenient as with petrol vehicles.

Environmental and Economic Benefits - Faster charging times mean more EVs on the road and fewer petrol vehicles. This not only reduces our carbon footprint but also translates to significant savings, given the rising fuel prices.

Battery Technology and Capacity - At the heart of every EV lies its battery. The technology behind these batteries (chemistry, BMS) and their capacity plays a pivotal role in determining charging speeds, particularly when it comes to DC fast charging.

Charging Infrastructure and Network - A robust and widespread charging network ensures that fast chargers are accessible, reducing wait times and making EVs a viable option for many more people.

Vehicle's Onboard Charging Capabilities - Not all EVs are created equal. Some come equipped with onboard chargers capable of handling higher power levels, translating to faster charging times. By way of example, popular EV models such as the BYD Atto 3 charge at 7 kW AC, whereas the Porsche Taycan can charge at up to 22 kW AC.

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