## 380 kWh lithium-ion battery



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While the motor may be the one propelling an electric vehicle. EV battery powers the motor, the only energy source for the system. The most popular battery used in EVs is a Lithium-ion battery. While batteries considered suitable for hybrid cars are NiMH.

Battery capacity or Energy capacity is the ability of a battery to deliver a certain amount of power over a while. It is measured in kilowatt-hours (product of voltage and ampere-hours). It determines the energy available to the motor and other elements. The rate is dependent on the amount of current being transferred by the battery as the voltage is usually constant. So scientifically it is denoted as only Ah.For example, the Mahindra e20 has 10kWh energy stored in the battery. It can deliver approx. 208 Ampere current for one hour, at a rated voltage of 48V.

A car"s range depends on its battery"s capacity and efficiency of use. Generally, most vehicles will need 20 to 30kW of power on highways for a steady speed. So, accordingly, a 60-kWh battery may allow up to three hours of travel. Though keep in mind that other factors such as speed or outside temperature influence the battery discharge rate. Measurement of battery capacity Battery capacity is measured in two different metrics: Gross or Total Capacity It is the total amount of energy theoretically held by the battery.

The difference is created by automakers to prevent the full charge and discharge of the battery. This damages or shortens the battery's life.Battery capacities of some common EVsTesla ModelS/Model X:100kWh battery.Mercedes Benz EQS:115 kWh or maybe more.Rivian R1T:135kWh battery.xPlease enable JavaScript

The battery of an EV is an important component of the system. It affects the size, range, and cost of the vehicle. A lot of research is currently going on to improve battery performance. This year-on-year improvement in the given characteristics of a battery plays a significant role in the mass adoption of EV vehicles.

While EVs aren"t that different to combustion engined 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 lets 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.

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.

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