

## Battery life 290 kWh

Akin to miles per gallon (mpg) for fuel-burning vehicles, this metric represents electric vehicles' energy consumption in kilowatt-hours per hundred miles (kWh/100 miles). A battery stores...

Electric Car Battery Life: Everything You Need to Know, Including How Long They Last. The battery packs of electric vehicles are quite resilient, with the lithium-ion type used in most...

Opel Combo-e Life 50 kWh: 213: Peugeot e-Rifter M 50 kWh: 213: Toyota Proace City Verso Electric L1 50 kWh: 213: Mercedes-Benz EQE SUV AMG 43 4MATIC ... Nissan Ariya e-4ORCE 87kWh - 290 kW: 215: Mercedes-Benz EQE SUV AMG 53 4MATIC+ 216: VinFast VF 8 Eco Extended Range: 217: BMW iX M60: 217: Citroen e-Berlingo XL 50 kWh: 217: Opel Combo-e Life ...

An EV's battery capacity is like the size of its fuel tank. While we measure a fuel tank in gallons, we measure battery capacity in kilowatt hours (kWh). We already explained that a watt-hour is a measurement of energy, so a kilowatt-hour is simply 1,000 of those watt-hours.

[Click here for a full overview of all electric vehicles](#)

In our article discussing Ah (ampere-hours) and Wh (watt-hours), we got a ton of questions about the longevity of batteries. The question "How long does a battery last?" was a predominant one. To help everybody trying to calculate how long will a battery last, we have created a Battery Life Calculator.

It's quite useful knowing when a battery will die on us. Example: If we go camping and depend on batteries for all our power needs, and we have no other means of generating electricity.

Before we check out the Battery Life Calculator, let's note that figuring out how long will a battery last is pretty simple in theory (in practice, it's actually quite difficult). We use this equation for battery drain time:

Example: How long will a 100 Ah (amp-hour) battery last if we hook it up to a 1 A electric device? Well, battery capacity = 100 Ah, load current = 1 A, thus such a battery will last for  $100 \text{ Ah} / 1 \text{ A} = 100$  hours.

Basically, a 100 Ah battery means that such a battery can provide 100 A of current for 1 hour. It can also provide 1 A current for 100 hours. Or 0.1 A or 100 mA for 1000 hours.

"I have a 100 Ah battery and want to run a camping light with a load current of 1 A with it. How long before the battery runs out?"



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Most of us deal with watts (W). We don't know what the load current of a 100 W light is. We just know that it's a 100 W light, right. That's why most questions about how long batteries last go along these lines:

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