



# Battery life 490 kWh

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Onboard battery management is critical to longevity. Full charge and full discharge are damaging to battery life. Overheating and potential thermal cascading into fires is possible.

The specifications shown here are for the 2021 Tesla Model 3 LR with Panasonic (variant E3LD) battery pack. Tesla has also delivered the same vehicle with a lower capacity LG battery pack in some markets since december 2020.

This battery life calculator estimates how long a battery will last, based on nominal battery capacity and the average current that a load is drawing from it. Battery capacity is typically measured in Amp-hours (Ah) or milliamp-hours (mAh), although Watt-hours (Wh) is occasionally used.

While the basic formula for kWh remains consistent ( $\text{kWh} = \text{Voltage} \times \text{Current} \times \text{Time}$ ), the specific methods for calculating kWh may vary for different battery types. Lead-acid and lithium-ion batteries, for example, have distinct characteristics that require specific approaches.

Charging is possible by using a regular wall plug or a charging station. Public charging is always done through a charging station. How fast the EV can charge depends on the charging station (EVSE) used and the maximum charging capacity of the EV. The table below shows all possible options for charging the Tesla Model 3 Long Range Dual Motor. Each option shows how fast the battery can be charged from empty to full.

Charging an EV in Europe differs by country. Some European countries primarily use 1-phase connections to the grid, while other countries are almost exclusively using a 3-phase connection. The table below shows all possible ways the Tesla Model 3 Long Range Dual Motor can be charged, but some modes of charging might not be widely available in certain countries.

Rapid charging enables longer journeys by adding as much range as possible in the shortest amount of time. Charging power will decrease significantly after 80% state-of-charge has been reached. A typical rapid charge therefore rarely exceeds 80% SoC. The rapid charge rate of an EV depends on the charger used and the maximum charging power the EV can handle. The table below shows all details for rapid charging the Tesla Model 3 Long Range Dual Motor.

The model shown on this page is the successor of the Tesla Model 3 Long Range Dual Motor, which was available to order from November 2020 until February 2022. The previous model had 25 km less range, same acceleration and was similar in energy consumption.

Welcome to the Battery Kilowatt Hour Calculator, a powerful tool designed to assist you in determining the energy capacity of your batteries. Whether you're a renewable energy enthusiast, an electric vehicle



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owner, or someone curious about energy storage, this calculator simplifies the process of understanding your battery's capabilities.

Using the Battery Kilowatt Hour Calculator is straightforward. Simply input the required parameters, click the "Calculate" button, and get accurate results instantly. This tool eliminates the hassle of manual calculations, providing you with quick and precise information about your battery's kilowatt-hour capacity.

A: Kilowatt-hour is a unit of energy, providing a measure of how much energy a battery can store or deliver over time. It's a crucial metric for understanding the performance and capacity of a battery.

In conclusion, the Battery Kilowatt Hour Calculator offers a simple yet effective way to determine the energy storage capacity of your batteries. Whether you're managing a renewable energy system or optimizing an electric vehicle, this tool empowers you with valuable insights. Say goodbye to manual calculations and embrace the efficiency of this user-friendly calculator.

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