



Environmental protection 320 kWh

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The 2024 Tesla Model S flagship model was recently listed on the U.S. Environmental Protection Agency (EPA) website, revealing its official range and energy consumption ratings.

There are two versions of the Tesla Model S on the market: the base Long Range all-wheel drive (AWD) and the tri-motor Plaid version, both equipped with 19-inch or 21-inch wheels.

Tesla was the first truly long-range all-electric car on the market when it was launched in 2012. Its original EPA Combined range rating was 265 miles, using an 85-kWh battery. The 2024 model year version has about 100-kWh battery and a range of up to 402 miles.

The 2024 model year brought a decrease in the EPA Combined range ratings due to the EPA's new methodology, which affected all EVs.

In 2022-2023, the Model S Long Range AWD with 19-inch wheels had 405 miles of EPA Combined range, while the Plaid had up to 396 miles. The updated EPA methodology--which draws average energy consumption from best- and worst-case drive modes instead of using the default driving mode--has brought some of the numbers down.

The Plaid version with 19-inch wheels has 359 miles of range (320 miles with optional 21-inch wheels).

There is a big difference between the base and top configuration:

The 2024 Tesla Model S LR AWD with 19-inch wheels" energy consumption, including charging losses, is estimated at 122 MPGe, or about 276 watt-hours per mile (3.6 miles/kWh).

The Plaid versions consume a lot more energy. The 19-inch version is rated at 107 MPGe: 315 Wh/mi or 3.2 miles/kWh, while the 21-inch version at just 96 MPGe: 351 Wh/mi or 2.8 miles/kWh.

Let's note that the highway MPGe ratings are slightly lower than the combined values. We can estimate that the Long Range AWD version will have 20 miles less range on the highway. However, this is only a rough estimate because the MPGe number includes charging losses.

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