

Tesla lfp battery charging recommendations

For the entry-level rear-wheel-drive Tesla Model 3 with the lithium iron phosphate ...

Recently, Tesla updated its Model 3 owner's manual for the US with charging ...

Model 33.6993.899,2000(1.3)?

The main battery pack on your Tesla vehicle costs several thousand dollars to replace. Because of this, you are, quite naturally, concerned about maintaining the battery to improve its life span. And one of the important factors that affects the lifespan of the battery is how you charge it.

There have been a lot of questions about the best charging practices for a Tesla vehicle battery, especially the question of whether it's ok to charge the lithium-ion phosphate (LFP) battery to 100 percent.

On this subject, you will get many opinions and so-called best practice recommendations from different sources. But, as I always say, there is no better place to look than the vehicle manufacturer itself and factual scientific information about the subject.

So, in this article, I will answer all the questions that you have about to what percentage to charge the LFP battery on a Tesla vehicle, and provide other best practice recommendations on how to maintain your Tesla vehicle battery using recommendations from Tesla and basic physics.

It depends. The answer is in your vehicle, literally.

All of Tesla vehicles, no matter the model and model year, use lithium-ion batteries for the main battery pack. However, they are not all the same. The batteries differ in the chemical composition of the cathodes as follows:

The last two cathode chemistries, NCM and NCA, are so energy dense that they are best suited for the long range versions of Tesla vehicles. The lithium-ion phosphate cathode chemistry is less energy dense, less expensive, and best suited for other Tesla vehicle versions.

Each of these battery chemistry types have their recommended maximum charge limits but their minimum charge limits are all the same.

And that's why Tesla never recommends a single value for all their vehicles' battery charge limit. Instead, here is what Tesla have to say on to what percentage you can charge your vehicle's battery:



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