Tesla lfp battery degradation chart

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

Tesla revealed the average battery capacity (and range) degradation for its electric ...

Model 33.6993.899,2000(1.3)?

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There"s no secret recipe for retaining a perfect 100 percent of your electric car"s original range after racking up those miles, at least not yet. But with some TLC and by sticking to the basics, EV owners can restrict battery degradation to a minimum over time.

For the entry-level rear-wheel-drive Tesla Model 3 with the lithium iron phosphate (LFP) battery, one of the best ways to minimize battery degradation, according to Tesla, is to fully charge to a 100 percent at least once every week.

But would that really ensure the best range retention? How does battery health vary when you charge regularly to 80 percent instead of 100 percent? And what"s the average degradation percentage in Model 3"s LFP battery? Some owners weighed in through a Reddit thread to help answer these questions.

Before that, here"s some essential battery information: LFP batteries are generally more affordable and have a longer charge cycle compared to NMC (nickel-manganese-cobalt) counterparts, making them more suitable for entry-level models like the rear-wheel-drive Model 3.

In recent years, carmakers have moved away from metals like cobalt for certain use cases due to ethical reasons. LFP batteries, despite being less energy-dense and delivering a comparatively lower range, have become quite popular due to their cost-effectiveness. Tesla uses CATL"s LFP batteries for the standard Model 3 and Model Y globally.

Moving on, dozens of owners of the LFP-battery-equipped Model 3 seem pretty darn happy with their EVs. It seemed like 10- to 12-month-old Model 3s experienced similar degradation levels - of roughly two percent - across myriad use cases ranging from charging to 80 or 100 percent daily or just once a week.

Multiple owners echoed thatbattery age was more of a factor in degradation than the number of miles driven, at least in the initial few years. Note that factors like driving style, climate, maintenance, and charging pattern are among several reasons that will impact the long-term range of your EV.

However, there were some exceptions. Older models naturally had more degradation, with this owner saying his Model 3 lost nearly five percent range in two years:

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