

# LFP Battery Module

What is a thermally modulated LFP battery?

Such a thermally modulated LFP battery designed to operate at a working temperature around  $60 \pm 176^\circ\text{C}$  in any ambient condition promises to be a well-rounded powertrain for mass-market EVs.

Does a thermally modulated LFP battery offer a cruise range?

Here we demonstrate a thermally modulated LFP battery to offer an adequate cruise range per charge that is extendable by 10 min recharge in all climates, essentially guaranteeing EVs that are free of range anxiety.

What is the voltage range of repurposed LFP battery cells?

In this work, the voltage ranging from 2.5 to 3.5 V is adopted for safe working of the repurposed LFP battery cells (i.e.,  $V_{\text{cut}} = 2.5 \text{ V}$  and  $V_{\text{thres}} = 3.5 \text{ V}$ ), which is narrower than the safe working voltage range of new LFP battery cells (2-3.65 V). The voltage range can be adjusted according to the manufacturer's design.

Will Model 3/ Model Y have LFP batteries?

Soon, all the standard range Model 3/ Model Y cars will be equipped with the LFP batteries as default. The long range versions will use more energy dense chemistries and cylindrical form factor. In other words, there will be two different battery packs.

How many LFP cells are in a Tesla Model 3?

Thanks to the Munro Live 's Sandy Munro, who visited Our Next Energy, we can take a look at one of the Tesla Model 3 Standard Range Plus' battery packs. As we can see, there are four rows of LFP cells, which reminds us of the 4 modules with 2170-type cylindrical cells in Tesla's original design in the Model 3/Model Y.

What is a TM-LFP battery?

The TM-LFP battery refers to the cell with 1.5 times the graphite radius. The data points are from Fig. 2b for specific energy, Fig. 2d for energy density, Supplementary Figs. 5f and 14b for peak power, Fig. 4 and Supplementary Fig. 14d for charge time, and Fig. 5d for calendar life.



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