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NIO Launches Hybrid-Cell (NCM/LFP) Battery Pack (CTP Type) It offers a ...

On September 23, NIO officially launched its standard-range hybrid-cell battery (75 kWh). Models equipped with the new 75 kWh battery are available for orders from 14:00(GMT+8) on the same day and delivered to users from this November.

The standard-range battery (75 kWh) is a hybrid of ternary lithium and lithium iron phosphate (LFP) cells with the application of the new-generation cell-to-pack (CTP) technology. Empowered by NIO's patented technologies, the battery comes with a more extended range in cold weather and accurate state of charge (SoC) estimation, providing a battery performance at the same level as the ternary lithium battery.

Excellent Low-Temp Range Performance With 25% Less Range Loss

NIO has designed a complete thermal management software and hardware system for the standard-range battery (75 kWh), which reduces the range loss in low temperature by 25% compared to its LFP counterpart.

SoC Estimation as Accurate as That of Ternary Lithium Battery

NIO's self-developed hybrid-cell battery SoC estimation system integrates the innovation of software algorithm and hardware application, which reduces the estimation error to less than 3%, reaching the ternary lithium battery SoC estimation level. The dual chemistry SoC algorithm fully utilizes ternary lithium and LFP battery systems to realize constant battery SoC estimation and guarantee accuracy. In addition, a high-power DCDC within the battery ensures fast, real-time, and balanced SoC calibration.

Application of the New-Generation CTP Technology

In addition, the 75 kWh standard-range battery is equipped with the new-generation CTP technology, which simplifies manufacturing and assembly by 10%, increases volume utilization by 5%, and increases energy density by 14% to 142 Wh/kg.

Starting today, the standard-range hybrid-cell battery (75 kWh) and the long-range ternary lithium battery (100 kWh) are available for new NIO car orders. The prices of NIO models with the new 75 kWh battery and their BaaS subscription remain the same as those with the previous 70 kWh battery.

The new 75-kWh battery pack will not use both LFP cells and ternary cells like its predecessor and will begin deliveries soon with the 2024 models.



Battery pack 75 kWh

In September 2021, Nio (NYSE: NIO) launched its 75-kWh hybrid battery pack, introducing lower-cost lithium iron phosphate (LFP) cells to its batteries for the first time, although the standard range pack still uses a small number of NCM (nickel, cobalt, and manganese) ternary cells.

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