

# **The Latest Challenges of High-capacity Power LIB Batteries**

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Recently, the development of electric vehicles has become an inevitable trend. Governments and major automakers have successively pledged to support green energy and set a milestone for the promotion of electric vehicles. Therefore, the technology and production capacity requirements for lithium-ion secondary batteries are continuously increasing. In the past, due to mileage insufficiency, the development of high-capacity battery technology has always been the mainstream and already solved now. With the current solutions for driving range, the pursuit of vehicle performance and energy efficiency has become more important. For this reason, the technological development of high-efficiency electric delivery is more critical.

Though the LIB battery stores energy and then powers the vehicle, due to the impedance of the battery itself, the energy consumed will also generate heat. This makes automobile design more complicated in terms of thermal control, especially in high-power driving. Generally, Battery design is difficult to balance capacity and power performance. This presentation shares the challenges of high-capacity power batteries, including views on materials and design.