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Thermal Management System for Lithium-Ion Batteries

Edited by: Jinsheng Xiao, Hengyun Zhang and Tianqi Yang

Lithium-ion batteries (LIBs) have been widely used as power sources in the automotive and energy storage industries due to prominent features such as their high energy density, high power output, low self-discharge rate, and minimal memory effect. Nevertheless, the performances of LIBs are greatly affected by operating temperature: a higher temperature can cause accelerated battery degradation, with a shortened lifetime and even thermal runaway; a lower temperature can cause reduced capacity, leading to issues such as mileage anxiety and sudden power failure. The Special Issue “Thermal Management System for Lithium-Ion Batteries: 2nd Edition” has thus been developed to address the ever-increasing thermal management requirements for batteries across various application scenarios.

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