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What are the advantages of a modular & distributed battery management system?
Scalability: Modular and distributed BMSs are highly scalable. Additional modules can be added to the system without significantly altering the existing configuration,making it easier to expand the battery capacity and to make modifications to existing architecture. Flexibility: They offer more flexibility in terms of battery pack design.

What is a modular battery management system (BMS)?
In a modular BMS configuration, the system battery pack is partitioned into multiple identical modules. A modular BMS incorporates the monitoring and balancing functions directly into the battery cells or modules. Each module has its own BMS circuitry that can manage the cells within it. These modules then communicate with a master BMS unit.

What is the difference between centralized and modular BMS?
Each architecture has its advantages and disadvantages,and the choice between centralized and modular architectures impacts how the system monitors and manages the battery packs. In a modular BMS configuration,the system battery pack is partitioned into multiple identical modules.

What is a modular global architecture for battery balancing?
In ,Shang et al. proposed a modular global architecture using multiwinding transformersfor battery cell balancing. The architecture caused the cell with the highest capacity to transfer the extra energy to other cells in the whole pack.

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