

SCCER Summer School - Energy Storage in Batteries: Materials, Systems, and Manufacturing

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Battery System Components

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For a complete battery system additional hardware is required. The battery management system (BMS) monitors the operating values (voltages, currents and temperatures) and protects the battery cells from being used outside their safe region. The hardware and software structure of such a BMS must meet certain requirements regarding low power consumption, safety critical behavior and accuracy. The current interrupting devices (CID) as well as fuses and current sensors should be carefully designed and their sizing depends on the application of the battery system.

Presenter: Prof. ADREA, Vezzini (BFH-CSEM Energy Storage Research Center)