

Analysis of Battery Module Cooler for Electric Vehicles

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Abstract. The paper presents Computation Fluid Dynamics (CFD) simulation of cooler system for small Li-Ion battery module suitable for electromobile's traction battery. The results from simulation show the difference in cooling effect for individual cells in terms of their different operation temperature. This difference in cells' temperature should be the input for further State of Charge (SOC) and State of Health (SOH) calculation and evaluation of battery module.

ACKNOWLEDGMENTS

This work was supported by project of the internal FEI STU call Innovative batteries and battery systems for e-mobility applications (BATSYS), by project HORIZON EU "FreeTwinEV" project no. 101159989, and by Grant Agency KEGA, grant No. 006STU-4/2023.