

Improving Payload Capacity of eVTOL: High-Precision Cell Monitoring, Model-Based State Estimation and Cloud-Based Battery Analytics

Overview

Payload capacity of eVTOL's are sacrificed to increase range by adding more batteries. It's a balancing act where you can only carry so much before using additional power for distance.

Utilizing high-precision sensors and advanced algorithms, the BMS can track individual cell characteristics to have tighter control over the discharge profile. BMS also uses modules to measure accurate data regarding the state of the cell to help pilot safe payload planning. These collected data is transferred to the cloud for advanced analytics that can predict trends, identify potential issues, and optimize charging strategies. This allows aerospace companies to proactively manage their eVTOL battery fleet and maximize payload capacity over time.

Feature

- Improved payload capacity
- Battery package management

