Future Electronics presents:

Complete BMS for E-Bike type by Monolithic Power Systems

Presenter: Hongxin Guo



Power Electronics & Energy Storage event 27 juni 2023 | 1931 Congrescentrum 's-Hertogenbosch **ENERGY STORAGE**



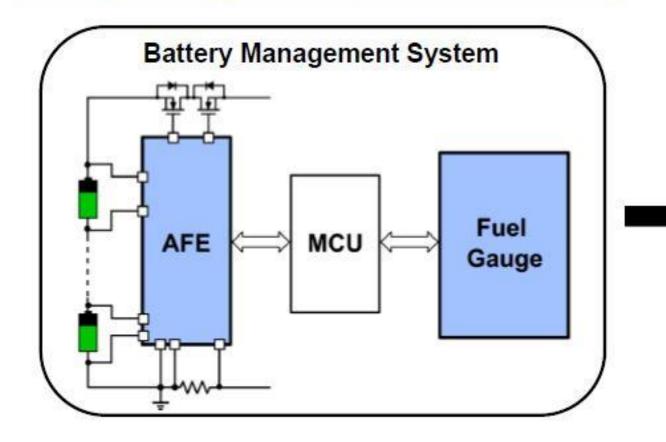
 Future Electronics is a worldwide leader in electronic components distribution and is recognized as one of the most respected and innovative companies in the industry today with a clear focus on supply chain solutions and technical expertise.



 Monolithic Power Systems (MPS) provides small, highly energy efficient, easy-to-use power solutions for systems found in industrial applications, telecom infrastructures, cloud computing, automotive, and consumer applications.



Battery Management System Architecture

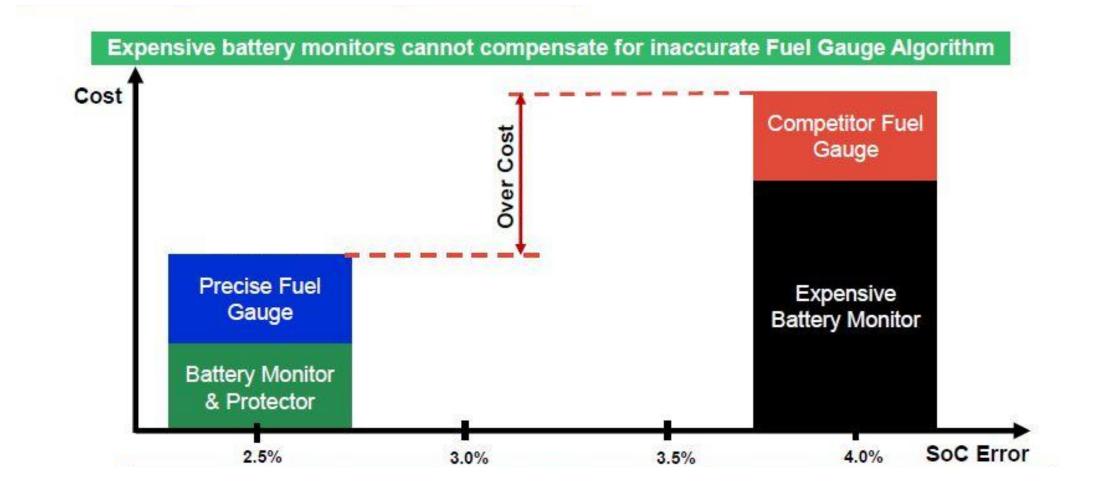


- The most valuable parameter is
 the State of Charge (Soc)
- Fuel Gauge provides SoC using
 - the measurements from the AFE
- Voltage, Current and

Temperature parameters are key

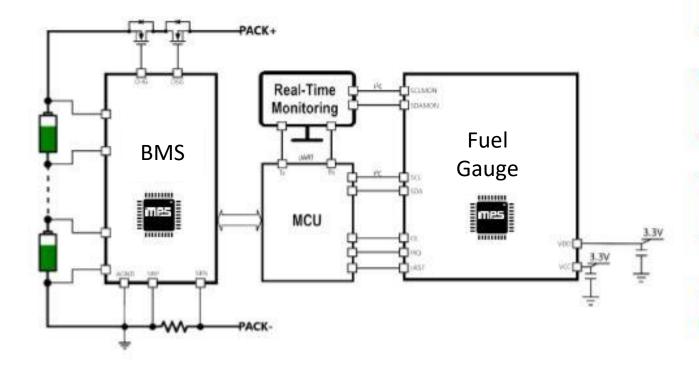
for the Fuel Gauge







BMS Overview



Complete BMS Solution pairing MPS Battery Protector & Monitor and Fuel Gauge

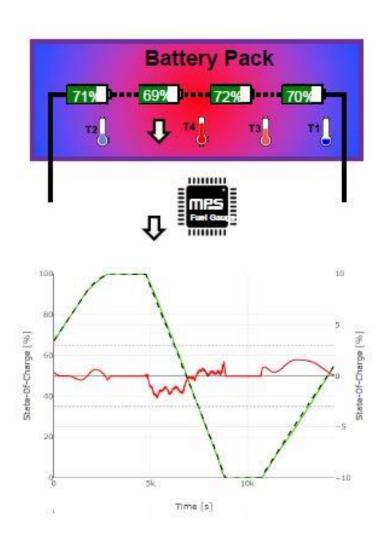
Ensures less than 2.5% State-Of-Charge deviation over temperature and time

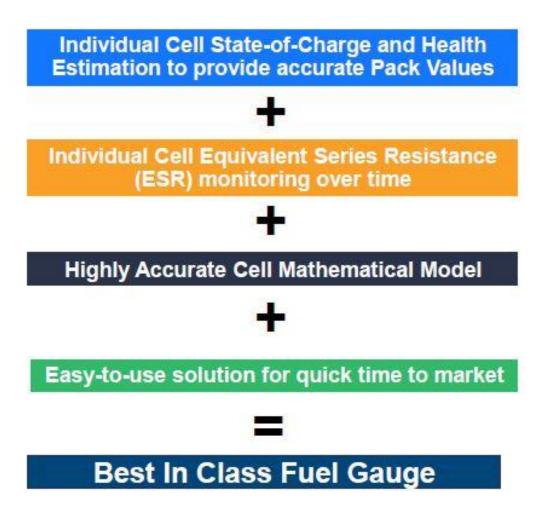
Tracks each individual series cell State-of-Charge and Health

Easily adapted to every battery design

From 7 to 16s battery packs









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DEMO



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