



Hybrid



Electric

Explore our Technologies

BMS (Battery Management System)

for Electric and Hybrid Cars

BMS (Battery Management System)

A BMS System shall be able to isolate the HV battery from the rest of the vehicle and optimize the efficiency of the HV battery:

- Monitoring each battery cells voltage and temperature with very high accuracy (ASIL D)
- Control the contactor to charge or to isolate the HV battery with contactor diagnostic (ASIL D)
- Maximize the battery charge performance by balancing cells individually
- Periodical verification of isolation between vehicle LV and HV domain

Features and Benefits

- Monitor battery up to 800 V
- Drives 3, 5, 7 or more contactors
- Compatible with every battery chemistry as long the cell voltage is higher than 0.7 V
- Flexible car compatibility: electric or hybrid up to 800 V
- Robust contactor diagnostic: Short circuit to battery, short circuit to ground and open load (ASIL D)
- Very low power consumption
- Optimizes the HV battery operation with cell balancing in order to have homogenous cell SOC capability (increases car autonomy)
- Multiple battery topologies can be supported with a single BMS design by simply adding more cell monitoring controllers
- Large low voltage supply range from 8 V to 16 V
- Supports multiple external current or pressure sensors with digital or analog interfaces
- Integrated isolation check
- Cost effective full plastic housing design

