

# JST

THE QUALITY CONNECTION

## AUTOMOTIVE BATTERY MANAGEMENT SYSTEM



# BATTERY MANAGEMENT SYSTEM

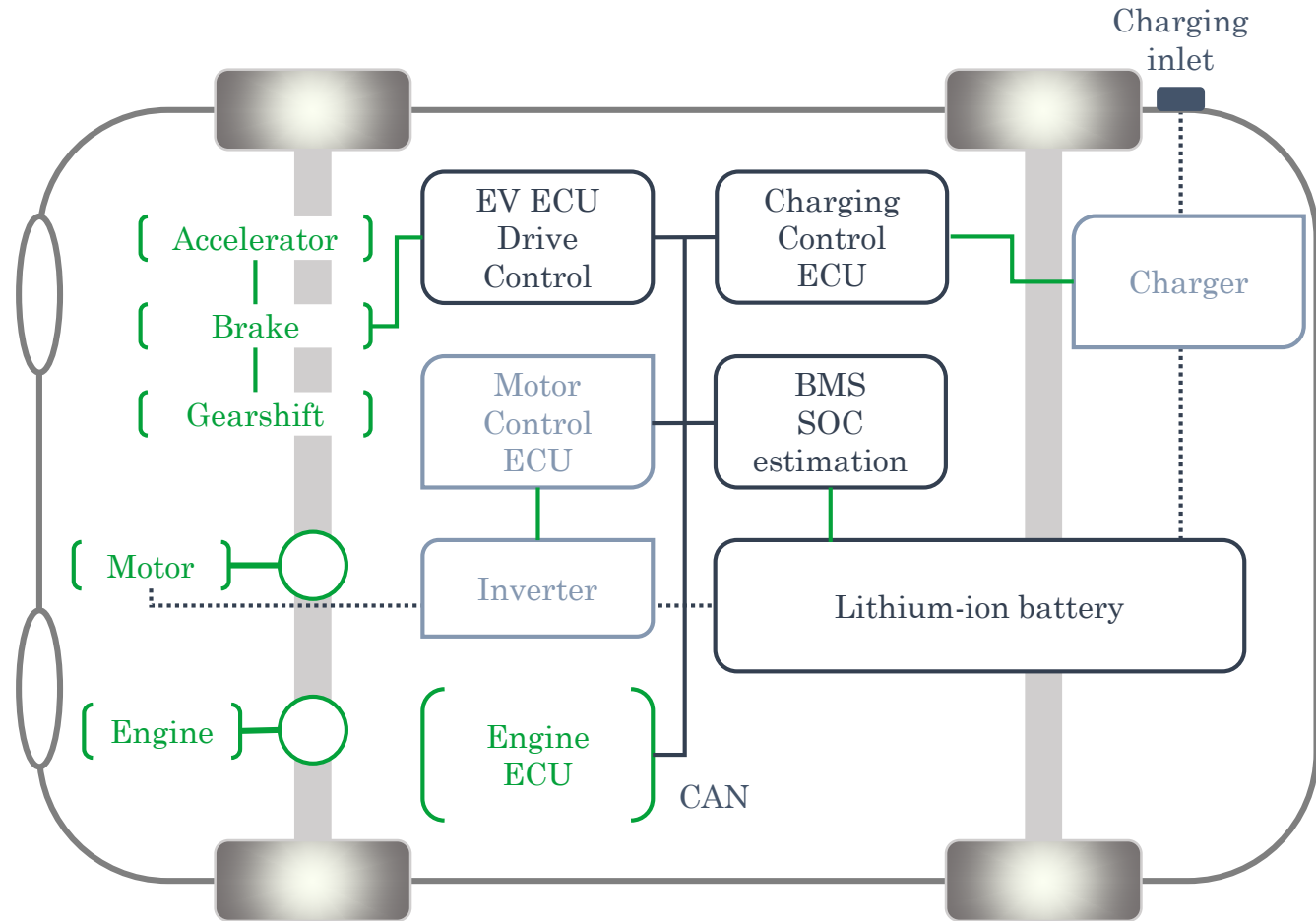
What are the main functions of a BMS ?

Automotive Battery Management Systems (BMS) has be able to meet critical features: as voltage, temperature and current monitoring, battery state of charge (SoC) and cell balancing of lithium-ion (Li-ion) batteries.

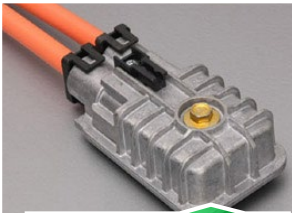
Battery protection for preventing operations outside its safe operating area.

Battery monitoring by estimating the battery pack state of charge (SoC) and state of health (SoH) during charging and discharging.

Battery optimization thanks to cell balancing that improves the battery life and capacity, thus optimizing the driving range for hybrid (HEV), plug-in (PHEV) and full electric vehicles (BEV).



# BMS



HVGW



HVGT



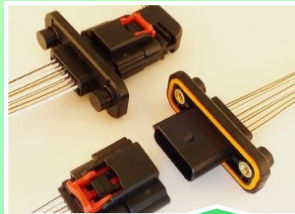
SHP2



TLDR



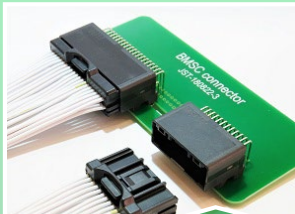
ATLF



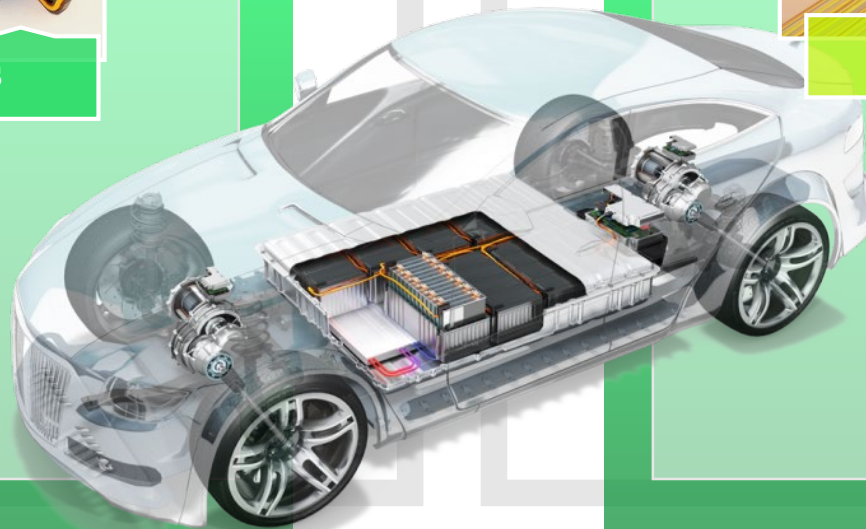
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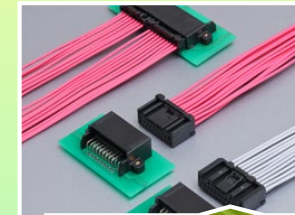
HVD



BMSC



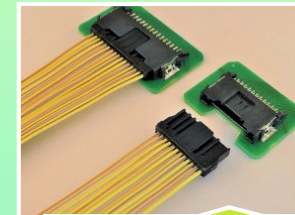
CPT



MEC



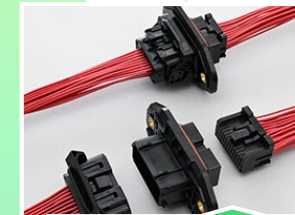
CPM



CMEC



ULH

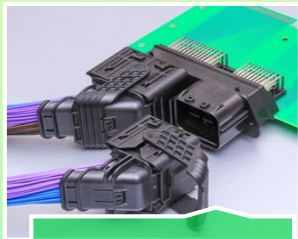


EVZ

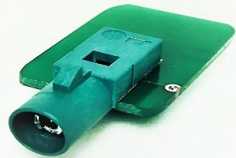


HPCU

# AUTONOMOUS



JIA



JRF



MSAZ



MSZ



# TELEMATICS



JRF



# INFOTAINMENT



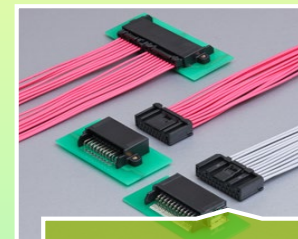
JRF



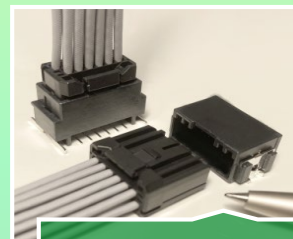
# HEADLIGHT UNIT



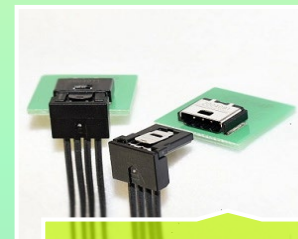
CPT



MEC



CPM



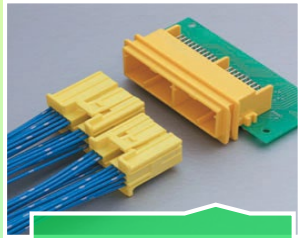
CULH



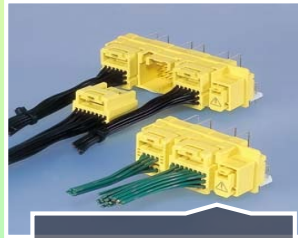
ULH



# SAFETY AIRBAG



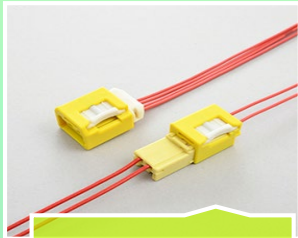
TRZ



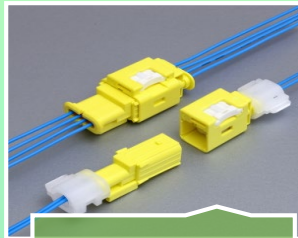
CIT



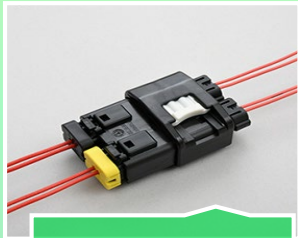
WIC



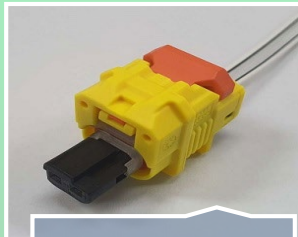
BAB



SAB



SISC



MSAI





# JST

## THE QUALITY CONNECTION

THANK  
YOU

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