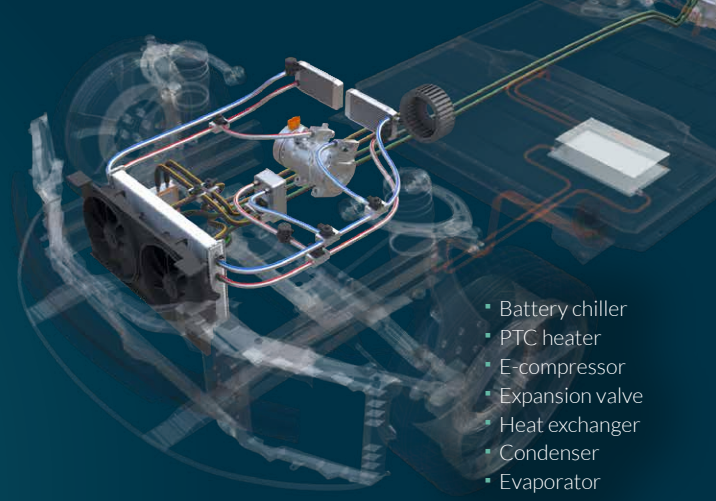


Smart BEV thermal management

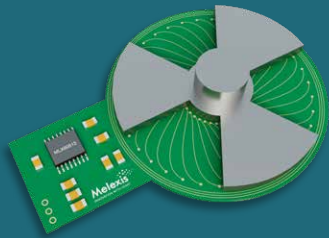
Melexis IC-solutions optimize EV thermal management, increasing range, shortening charging time and boosting in-car comfort



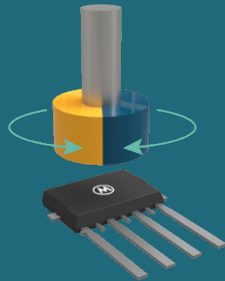
Position sensor ICs

Technology choice

- ✓ Magnetic and/or inductive
- ✓ Integrated sense & drive solution
- ✓ IC position flexibility



Inductive

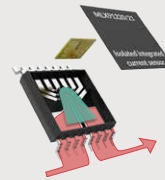


Magnetic

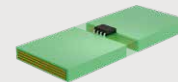
Current sensor ICs

Technology choice

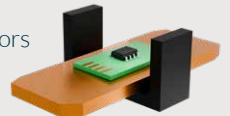
- ✓ High accuracy with ease of integration
- ✓ Fully integrated and isolated current sensors
- ✓ Factory calibration



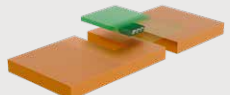
Integrated



Power PCB

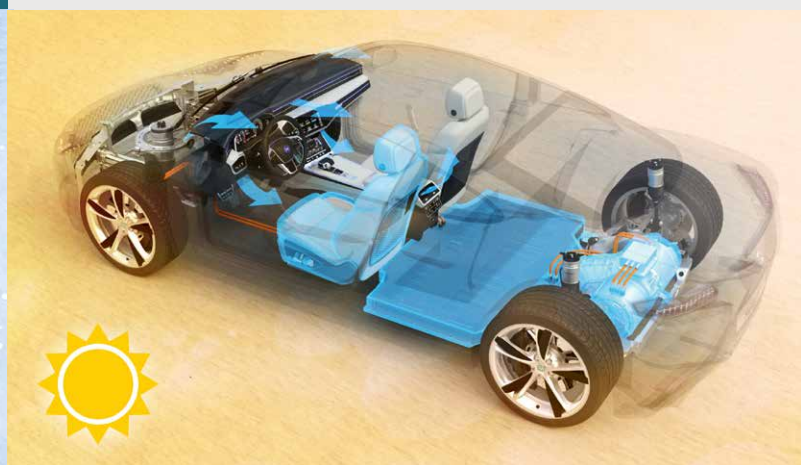


IMC-Hall® (<2kA)



Busbar

Coreless (<300A)



Motor driver ICs

Technology choice

- ✓ Smallest footprint
- ✓ Wide portfolio for best-fit choice
 - driver and pre-driver
 - embedded or state machine
- ✓ Robust operation with low acoustic



Thermal valve

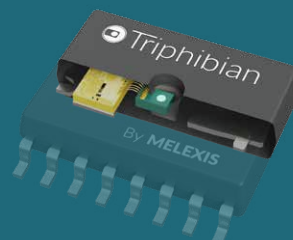
Pressure sensor ICs

Technology choice

- ✓ Triphibian™ technology and sensor interfaces
- ✓ Accuracy over lifetime
- ✓ Miniaturized sensor factory calibrated 2-70 bar



www.melexis.com/bev-thermal-management



Melexis

