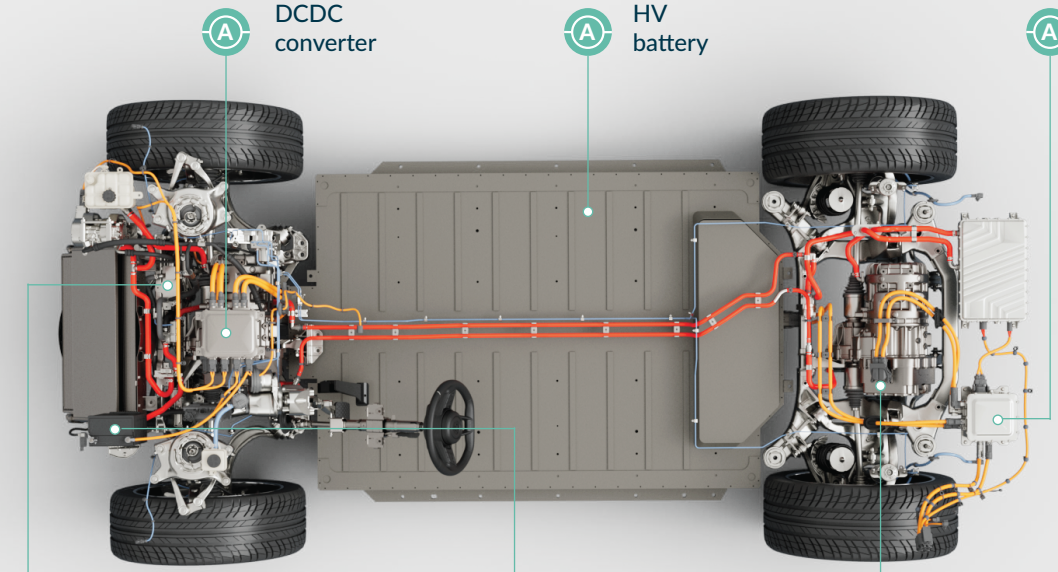
Current Sensor ICs



Melexis' current sensors rely on a robust implementation of Hall-effect technology, including our patented and award-wining IMC (Integrated Magnetic Concentrator). And more recently, we added shunt interface especially focusing on DC (battery) applications.

Applications



Technologies

Conventional Hall (core)

- Isolated currents up to 2kA
- Core for signal concentration
- High strayfield immunity
- Robust against mechanical play

IMC-Hall® (shield)

- Isolated currents up to 2kA
- Shield and IMC
- Easy assembly & vertical stacking
- Robust against mechanical play

Shunt (interface)

- Precise shunt readout (>10µOhm)
- NTC pin for thermal compensation
- High accuracy (I-V-T measurement)
- Integrated OCD & diagnostics / ASIL

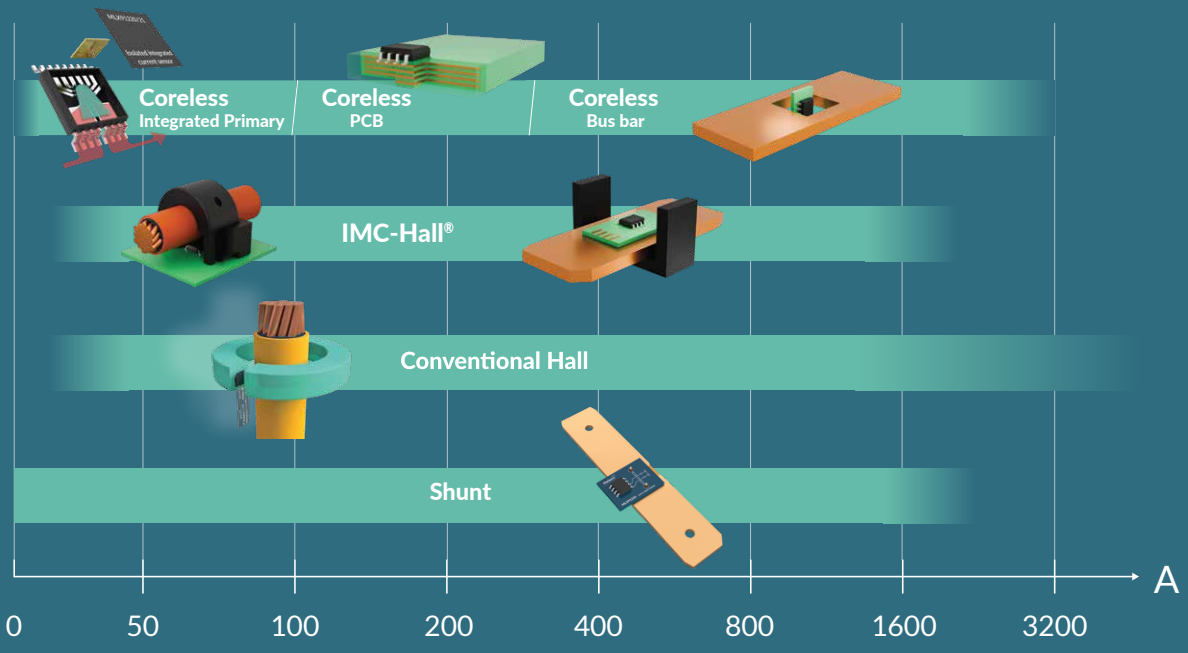
Integrated (coreless)

- Internal conductor up to 50A/100A
- No magnetic hysteresis
- No customer calibration needed
- Up to 4.8kVrms rated isolation

Coreless PCB/bus bar

- PCB and bus bar currents
- No flux concentrator
- State of the art accuracy
- Access to Melexis design support

Overview



Current sensor simulator

CURRENT
SIMULATOR
by Melexis

- For IMC-Hall® current sensor ICs
- Technology knowledge base
- Simplify your design
- Select the right IC and shield
- Include error budget
- Accessible to all

www.melexis.com/current-sensor-simulator

TRUFLUX

