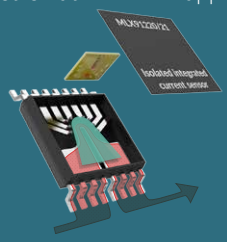
Onboard charger & DCDC

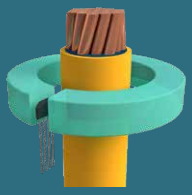
Melexis ICs provide the intelligence and efficiency required for the primary power stages of electrified vehicles (xEV). Our IC solutions facilitate the transition of energy from the grid to the battery, and ultimately to the vehicle's vital systems.

Current Sensor ICs

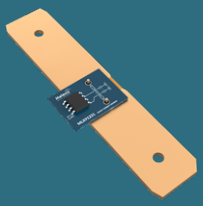
Our high-performance current sensors provide precise measurements and robust isolation for EV applications requiring effeciency and safety.



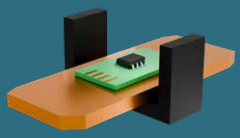
Integrated



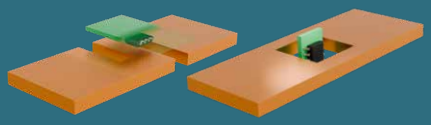
Conventional Hall



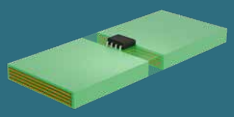
Shunt interface



IMC-Hall®



Coreless Busbar



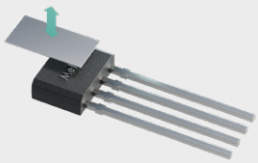
Coreless PCB

Technology choice

- Current Range
- Ease of integration
- Stray field immunity
- Functional safety
- High accuracy
- Miniaturization

Latch & switch ICs

Melexis offers a full portfolio of position sensing solutions for xEV power stages, ensuring robust lid detection and functional safety.

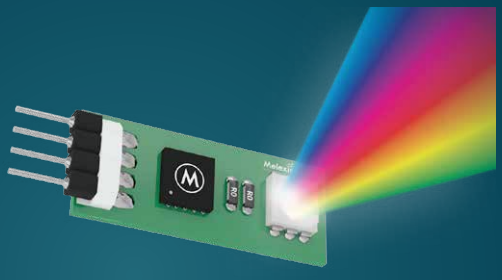


Technology choice

- Magnetic or inductive
- Ease of integration
- Functional safety
- Option for multiple (3-4) positions

LED Driver ICs

Our LED drivers optios are ranging from single-channel indicators to high-density multi-channel controllers for static (LIN) or animated (MeLiBu®) lighting.



Technology choice

- System integration (GPIO)
- Scalability
- Power management

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V1/05-2026

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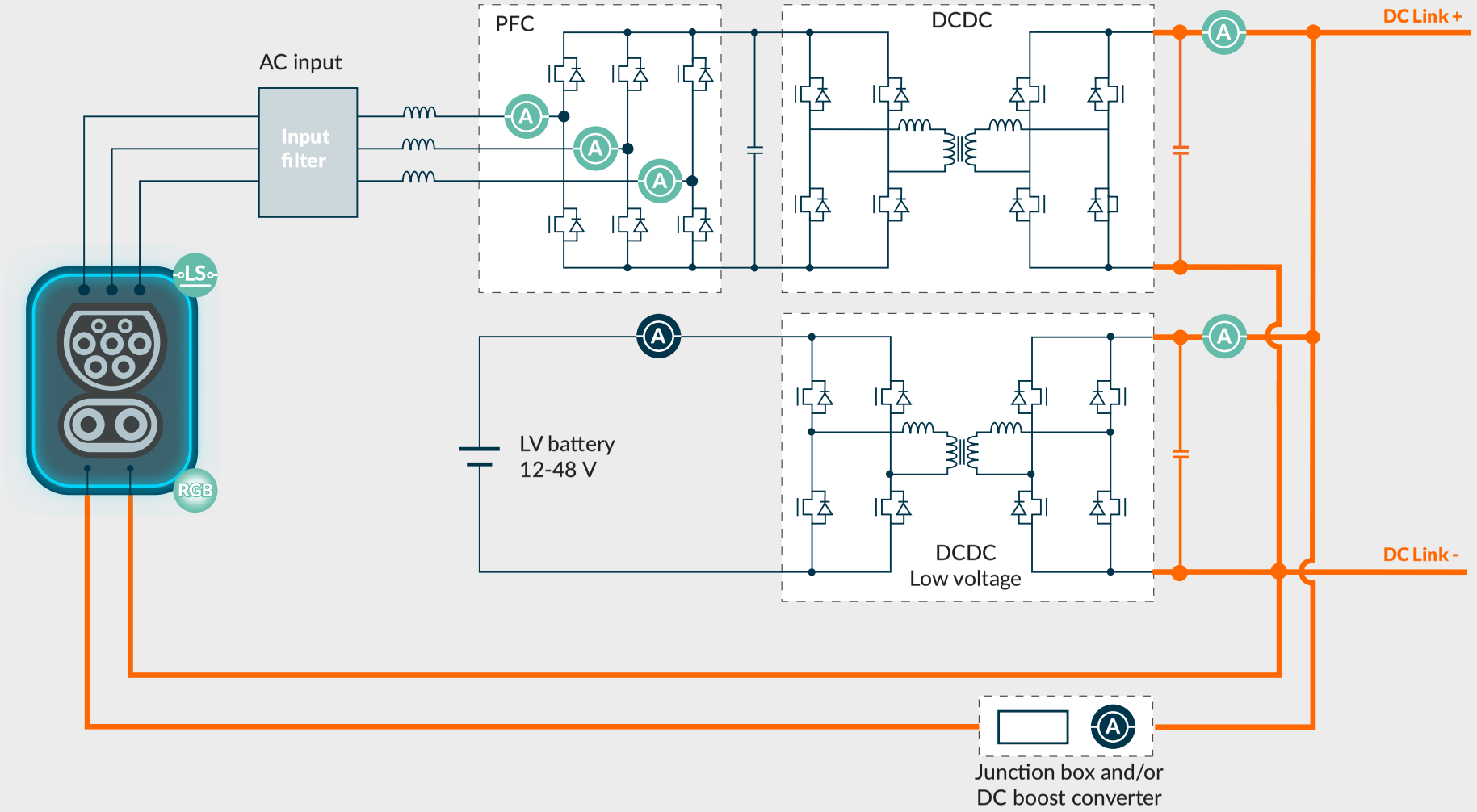

LATCH & SWITCH

Open/Close, Lock
MLX92242 (induxis®)
MLX92292 (micropower)
MLX92344 (3 positions)

LED DRIVER

Lightinting (LIN)
MLX81118 (multi-channels)
MLX81119 (+DCDC power)

CURRENT SENSOR

PCB (<100 A)
MLX91220 (integrated)

CURRENT SENSOR

PCB/Busbar sensing (>100 A)
MLX91219 (conventional)
MLX91218 (IMC-Hall®)
MLX91235 (Coreless)