MOBILITY

More miles from every charge with Infineon SiC & GaN

This T-type 3-level traction inverter features a HybridPACK™ Drive G2 SiC module with integrated cooling, bus bar, and DC link capacitors. A single-stage on-board charger increases efficiency by converting energy directly from the mains input to the vehicle battery. This demo features a GaN bidirectional switch (BDS) and a complete AURIX™ TC4x software development kit.

Benefits

- Inverter: High motor efficiency, increasing battery range by up to 5% on a WLTP cycle
- Inverter: Optimized commutation loop with 3-level design for lower $/amps
- SSOBC: Eliminates DC link capacitor to reduce cost and increase efficiency
- SSOBC: Universal for 1-ph / 7 kW or 3-ph / 11 kW-22 kW designs

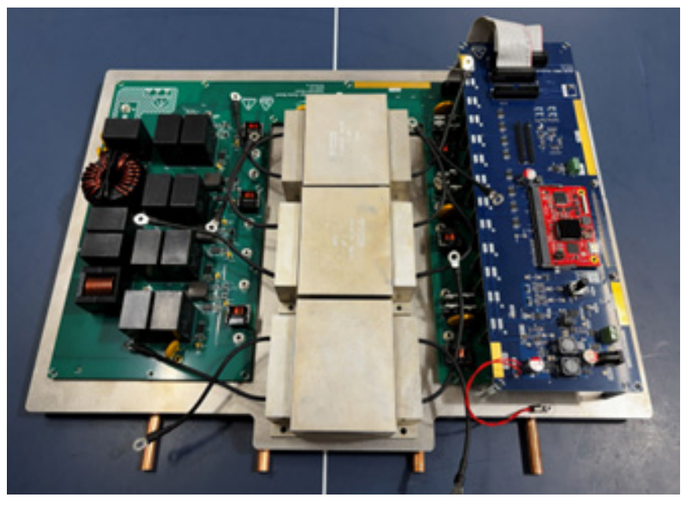
Highlight products

- HybridPACK™ Drive G2 SiC module (T-type)
- CoolGaN™ BDS
- AURIX™ TC4 MCU
- XENSIV™ coreless current sensor

Applications

- Traction inverters for electric vehicles (EVs) or plug-in hybrid EVs (PHEVs)
- On-board charger for grid-to-vehicle (G2V) or vehicle-to-grid (V2G) applications





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