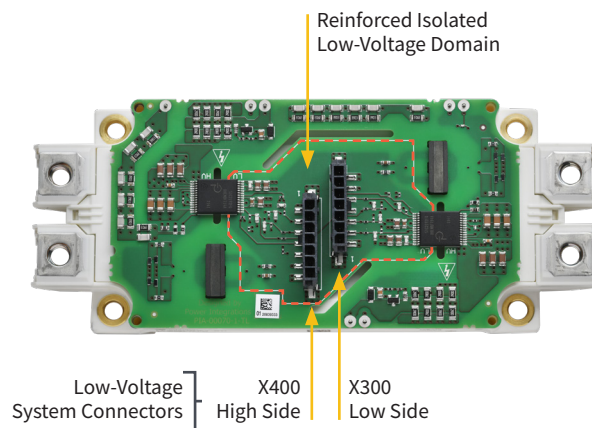
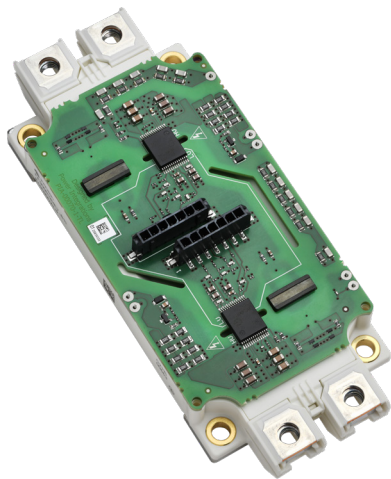


SCALE™ EV 2SP0215F2Q0C

- Complete board-level gate driver solution
- Automotive qualified
- ASIL ready
- Fully characterized with FF900R12ME7W 1200 V, 900 A IGBT half-bridge module

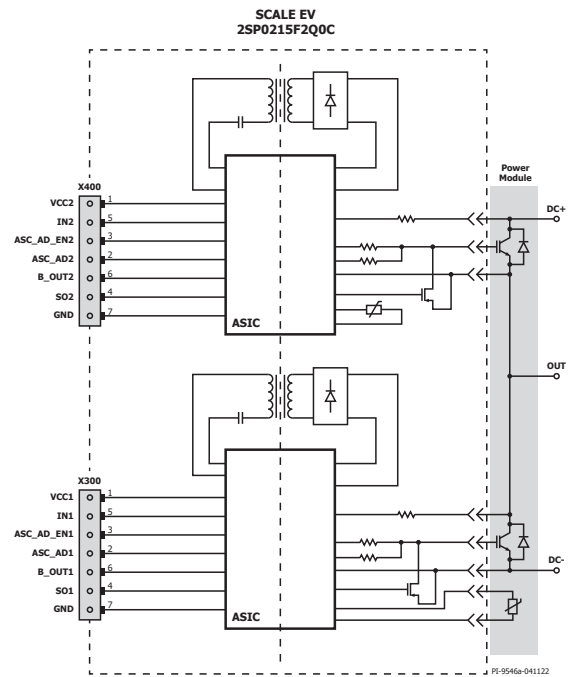
SCALE EV (2SP0215F2Q0C) Shown Mounted on the EconoDUAL™3 Dual IGBT Module



Automotive Gate Driver Board

- Ready-to-use, dual-channel gate driver for 1200 V EconoDUAL™ IGBT power modules
- Reinforced isolation
- ASIL B certification* (ISO 26262 SEooC)
- Automotive qualified
- Active discharge function
- Active short-circuit function
- Active Miller clamp
- Advanced over-voltage control with soft turn-off
- Isolated NTC temperature measurement
- Gate transition monitoring
- Single 5 V supply
- PressFIT compatible
- Conformally coated
- Up to 20 kHz operation
- +20 A / -15 A peak gate current
- -40 °C to 85 °C operating ambient temperature

*Pending



SCALE EV Automotive 2SP0215F2Q0C for IGBT Module FF900R12ME7W_B11

Reinforced Isolation (IEC60664)

- ≥ 9.5 mm primary-to-secondary creepage;
> 7.1mm clearance distance
- Exceeds requirements for 800 V system voltage
- Operation to 5500 meters
- 4 kV transient isolation voltage
- 1.2 kV repetitive isolation voltage

Diagnostics & Monitoring

- Dedicated fault output pins
- Digital bitstream telemetry provides:
 - Gate monitor warning
 - Over-current fault
 - Dead-time warning
 - Interlock warning
 - 5 V input supply under-voltage lockout (UVLO) fault
 - Secondary side under- and over-voltage warning
 - Primary side UVLO fault
 - ASIC primary and secondary temperature warning
 - Power module NTC temperature
 - Board temperature
 - Communications failure warning