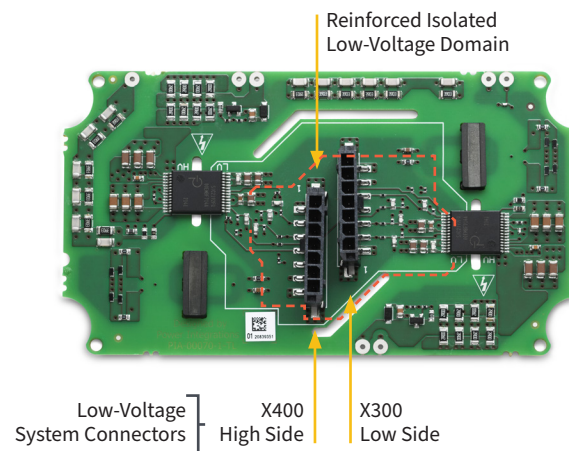
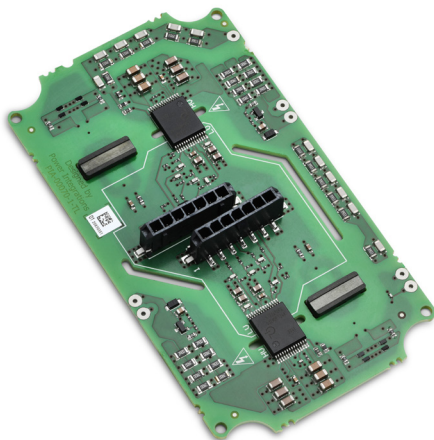


# SCALE™ EV 2SP0215F2Q0C

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

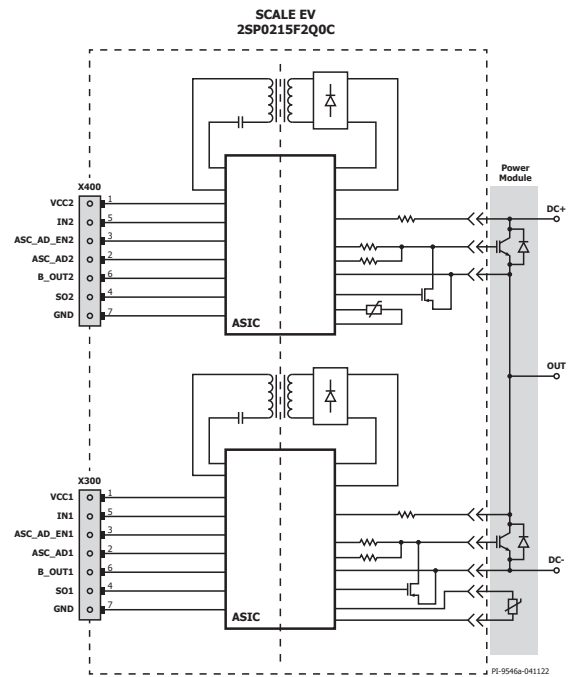
## SCALE EV (2SP0215F2Q0C)



## 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



## 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