POWERING AI

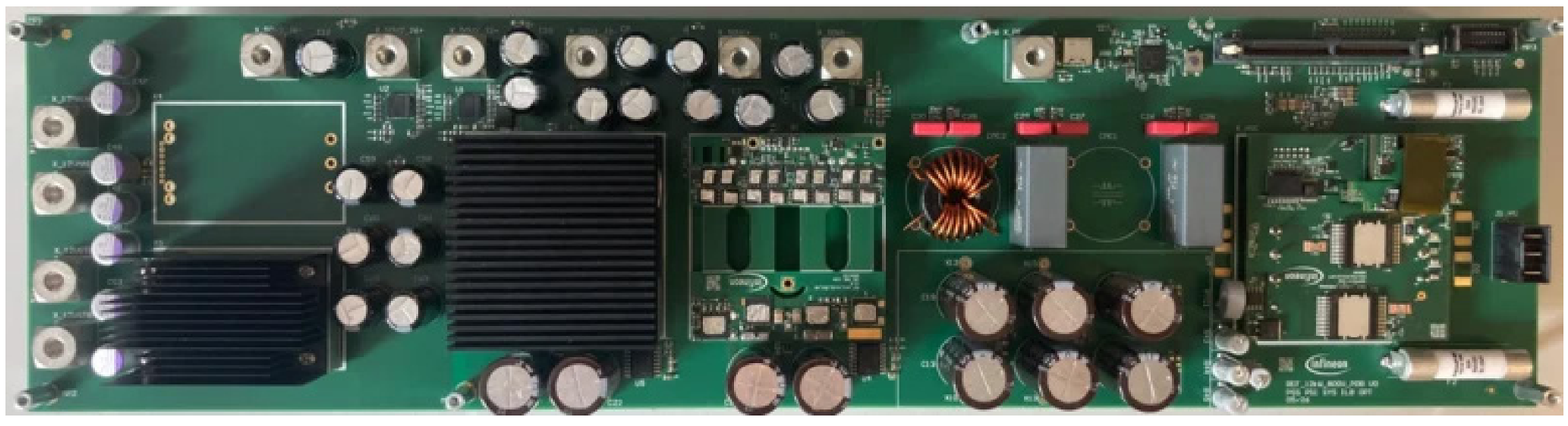
Fast, scalable PDB design for your +/- 400 V bus

We offer a complete system solution featuring our +/-400-50 V power delivery board (PDB), engineered to route power efficiently from the 400 V DC bus down to the voltage regulator in next-gen AI data centers. Integrating robust hot-swap protection ensures safe, scalable, and efficient power conversion to maintain continuous operation for massive AI workloads.

Benefits
- 12 kW PDB reference design
- Modular design for quick customer adoption with minimum effort
- Fully featured and full validation (up to EMI testing) for quasi-production readiness

Highlight products
- HV IBC: CoolGaN™ with HV and MV GaN gate drivers
- LV IBC: 2x TDM 50/12 V
- Hot swap: 1200 V, 2.3 mΩ JFET, 30 V MOSFETs, CoolSET, 1200 V SiC MOSFET

Applications
- 12 kW total power
- 2x 6 kW HV IBC 800 V / 50 V
- 2x 2.5 kW TDM 5837R254_B 50 V /12 V
- +/-400 V hot-swap module @ 32 kW TDP (ICE5SAG flyback controller integrated)
- Centralized EMI filter (double stage)
- Central MCU for monitoring and telemetry (based on PSOC™ Control C3)



Scan for more information