POWERING AI

Advanced protection for HV AI data centers

Our high-voltage hot-swap controller safely drives external JFETs using closed-loop pulsed safe operating area (SOA) control – preventing inrush spikes and SOA violations beyond standard dv/dt solutions. It also adds black-box recording, programmable protections, PMBus® v1.5 security, and MTP configurability for mission-critical reliability.

Benefits

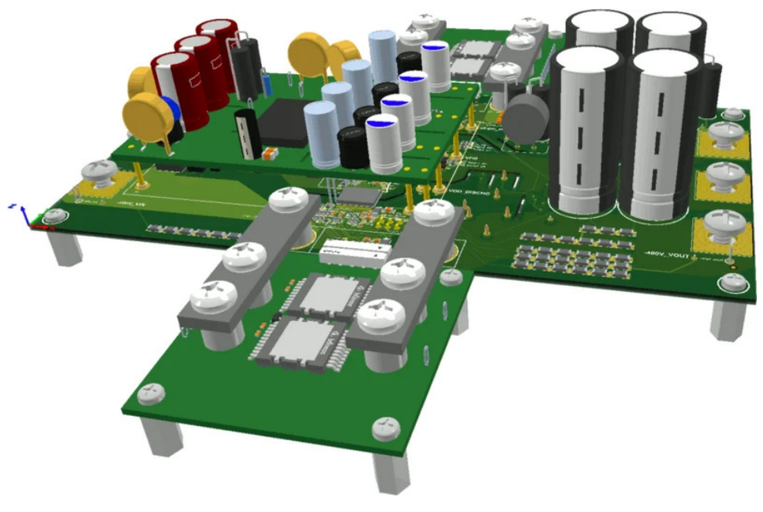
- Complete solution for high-voltage hot-swap application validation
- Hot-swap controller with integrated isolation for reduced BOM count
- JFETs with low RDS(on) and integrated cascade FET for smaller design
- Flyback for powering the controller as well as downstream devices

Highlight products

- XDP™ digital hot-swap controller
- CoolSiC™ 1200 V dual-drive JFET
- CoolSET™ flyback with integrated 1700 V CoolSiC™

Applications

- Configuration: +/-400 V with switch on low side, 0-800 V with switch on high side, +/-400 V with and without mid-point with switch on dual side
- Output power: 10 kW or higher



Scan for more information