

DC-DC Converter ISO5125I for SCALE™-2 Plug-and-Play Gate Drivers

- Operating voltage up to 12 kV peak
- Dielectric test voltage up to 18 kVAC
- Creepage distance 60 mm
- Output power 5 W
- Reliable, long service life
- Outstanding coupling capacitance 4 pF

DC-DC Converter for 3.3 kV to 6.5 kV SCALE-2 Plug-and-Play Gate Drivers

The ISO5125I is a single-channel isolated DC-DC converter suitable as a power supply for IGBT drivers up to 6.5 kV. It complements Power Integrations' 1SP0335 and 1SP0340 high voltage plug-and-play gate drivers. Its output power of 5 W enables switching frequencies up to 5 kHz. It enables IGBTs drivers in the 3.3 kV to 6.5 kV voltage range to be implemented in two-level, three-level and multi-level inverter topologies.

The driver unit is mounted directly onto the IGBT module by means of three screws. The power supply unit ISO5125I is designed as a separate module, to be attached close to the IGBT. For parallel-connected drivers, only one power supply is needed per switch.



Applications

- Railway main inverters
- Railroad power supplies
- STATCOM
- High-voltage DC transmission systems (HVDC)
- Flexible AC transmission systems (FACTS)
- Medium- and high-voltage drives
- Industrial motor drives