

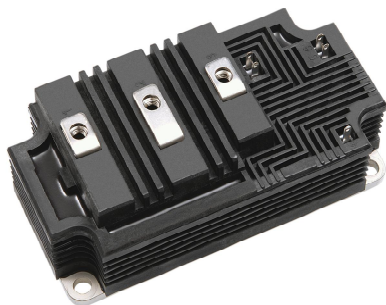
New high-voltage phase-leg modules at 4500 V, 2 x 150 A and 3300 V, 2 x 250 A

Up to now there are no high-voltage IGBT modules available rated at lower current ratings.

In order to fill this gap, ABB Switzerland Ltd, Semiconductors introduces a new module platform ideally suited for medium voltage drives and for auxiliary converters requiring higher voltage ratings. This new HiPak0 series with the foot-print of 70 x 140 mm is available in a half bridge or phase-leg configuration with voltage ratings of 3300 V and 4500 V. The module design is optimized to allow a simple electro-mechanical layout for two-level or three-level inverter designs. This also incorporates high voltage insulation ratings up to 7400 Vrms (on request up to 10.2 kV).

In order to enable the high insulation and reliability capability the module construction follows the proven design guide-lines for traction IGBT modules incorporating a high voltage AlN ceramic-substrate with a thermo-mechanically matched AlSiC base-plate.

Thanks to the very efficient SPT+ chip set up to 800 kW output power can be designed into a medium voltage drive in three level topology at 3300 Vrms AC-voltage with the 4500 V device 5SNG 0150P450300 or 2300 Vrms AC-voltage with the 3300 V device 5SNG 0250P330300. Higher output power ratings are easily achievable by paralleling modules.



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