Faster Switching, Higher Power, Proven Package

SEMITRANS®
45kW up to 500kW
SEMITRANS® 2 - 9

SEMITRANS is a robust industry standard package with copper baseplate and screw terminals for the power connections. The SEMITRANS package features a low-inductance design and can be used for inverters from 20kW to 500kW. The modules are available for up to 900A and 1700V, achieved with different IGBT sources and SEMIKRON CAL diodes. With more than 25 years of market experience, the SEMITRANS package delivers a well-established tried and tested standard design.

Benefits
- Robust industry standard package
- Multiple IGBT sources
- Large portfolio
- Special housings with low inductance for safe operation with high DC-link voltages

Large portfolio
- 25A - 900A, 6 housing sizes, different topologies
- A perfect fit for any application

Applications
This tried and tested package is designed for a wide range of applications such as regenerative inverters and power supplies. The long service life is ideally suited to ambitious applications such as AC drives, switched reluctance and DC motors.

Product range
The SEMITRANS family offers a wide range of topologies and power ranges. All the standard voltage classes from 600V to 1700V are covered. The current rating ranges from 25A to 900A. The SEMITRANS package is available in half-bridge, chopper, single switch, multilevel, sixpack and common emitter topologies.

Key features
Available in 600V, 650V, 1200V and 1700V
From 25A to 900A
Half-Bridge, single switch, chopper, multilevel, sixpack and common emitter topologies
Insulated copper baseplate using DBC
Integrated gate resistor
High isolation voltage
Extended Portfolio: Faster Switching and Higher Power

More power in 62mm:
- SEMITRANS 3 portfolio extension for 1200V and 1700V
  - 33% more power in 62mm housing
  - Based on proven IGBT chip technology
  - Available in half-bridge, chopper and common emitter configurations
  - Well established package

New high-speed IGBT4 – 1200V modules
- For welding, solar, resonant inverters and medical applications
- Lower power losses in comparison to standard low-power IGBT technology
- More powerful versions available thanks to increased current density of the chips
- With SEMIKRON’s new ultrafast CAL4U diodes: perfect match for high-speed IGBTs
- Well established packages

Tried and tested SEMITRANS packages
- Now with 33% more power
- Low-inductance design
- Reliable mechanical package
- Wide range of IGBT technologies

Optimised CAL4F / CAL4U diode
- IGBT chips with increased current density
We are close to our customers
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