Wind Energy
Power Electronics for Wind Energy

Power Modules
- SEMITOP
- MiniSKiiP
- SKiM
- SEMIX
- SEMITRANS 10
- SEMITRANS 20

IPMs
- SKiiP 4

Power Electronic Stacks
Our Solutions for Your Wind Turbine

SEMIKRON’s portfolio includes a wide range of products for wind energy applications, from small to medium-power modules for pitch and yaw drives to high-power components for multimegawatt power converters. From individual modules including dedicated drivers to high-power SKiiP4 IPMs and ready-to-use power electronic stacks – SEMIKRON has the solution. SEMIKRON products offer maximum reliability for on and offshore wind turbines both in industry standard packages and in high-power SKiiP4 IPMs and power electronic stacks.

Product Overview

Power Modules
- Broad module portfolio for all power ranges up to multi-megawatt converters
- 2 and 3-level modules for high-power solutions
- Maximum reliability in industry standard packages
- All connection technologies available: solder pins, press-fit pins, screw connectors and spring contacts
- Plug & play drivers

IPMs
- Highly reliable SKiiP 4 up to 3600A \(I_{\text{nom}}\)
- Water and air cooled versions
- CANopen interface for diagnostics
- Maximum reliability thanks to Single Sided Sintering technology and SEMIKRON ASIC driver chipset
- 100% tested incl. burn-in test

Stacks
- Fast time-to-market with ready-to-use power stacks
- Customized designs for individual customer applications
- Including SEMIKRON drivers with ASIC chipset for maximum reliability
- UL ready

SEMITRANS® 10 MLI
SEMITRANS 10 MLI enables wind turbine converters to reach voltage ranges up to 1000VAC (1500VDC) in 3-level NPC topology and increases converter efficiency

Reduced system cost thanks to 3-level topology
- Up to 1.5 MW without paralleling
- Lower switching losses thanks to the use of 1200V devices
- Lower THD means lower filter requirements
- Reduced cable diameters or cable losses
- Reduced cooling requirements

We are close to our customers
www.semikron.com/contact
shop.semikron.com