Energy Storage
Power Electronics for Energy Storage Systems

- Power Modules
  - SEMITOP
  - MiniSKiiP
  - SKiM
  - SEMiX
  - SEMITRANS
- IPMs
- SKiiP 4
- Power Electronic Stacks
Our Solutions for Your Energy Storage

With ever more decentral renewable energy sources in our power grid, the demand for energy storage systems to stabilize mains fluctuations will grow very fast. SEMIKRON’s portfolio includes a wide range of products for energy storage systems, from small to medium-power modules for residential and industry scale storage systems to high-power components for utility-grade storage systems. From individual modules including dedicated drivers to high-power SKiiP 4 IPMs and ready-to-use power electronic stacks – SEMIKRON has the solution. SEMIKRON products deliver maximum reliability, meeting the extended lifetime requirements of energy storage systems. Our industry standard packages, high-power IPMs as well as power electronic stacks offer a complete portfolio to cover your needs in the growing energy storage market.

Product Overview

**Power modules**
- Broad module portfolio for all power ranges
- 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 for 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

**Power Electronic Stacks**

**SEMIKUBE SlimLine**
- Frame size ranging from 75kVA to 1300kVA
- Off-the-shelf product range
- IP54 separation of electronics from cooling air
- CAN interface for settings and error diagnostics
- For integration in a 300mm cabinet
- UL1741 ready

**Concept for ESS cabinet integration (250kW)**
- Purpose-developed housing for easy maintenance and high reliability
- Based on SEMIKUBE SlimLine platform
- 3-phase interleaved buck-boost
- 250kW (400V 50Hz) AC to DC converter

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

SEMIKRON INTERNATIONAL GmbH
Sigmundstrasse 200, 90431 Nuremberg, Germany
Phone +49 911 6559 6663 / Fax +49 911 6559 262
sales@semikron.com / www.semikron.com

NOTE: All information is based on our present knowledge and is to be used for information purposes only. The specifications of our components may not be considered as an assurance of component characteristics.