

SEMISTACK® with SKiiP® 3

- Standard air range up to 700 kW without paralleling
- Standard water range up to 1 MW without paralleling
- Extremely high power density
- Electrolytic or polypropylene capacitors
- High reliability thanks to SKiiP technology
- Improved protection features
- Designed according to EN 50178

Options

- Low inductance busbar
- DC filtering capacitors
- Heat sinks
- Thermal Management
- Fans
- Drivers
- Thermal switches

Mains voltage V_{RMS}	SKiiP Type	Nominal current ¹⁾ A	Power rating ²⁾ kW
400	SKiiP 1803 GB 123	810 / 680	475
	SKiiP 2013 GB 123	900 / 800	530
	SKiiP 2403 GB 123	990 / 845	580
690	SKiiP 1803 GB 172	570 / 485	580
	SKiiP 2013 GB 172	640 / 555	650
	SKiiP 2403 GB 172	680 / 590	690

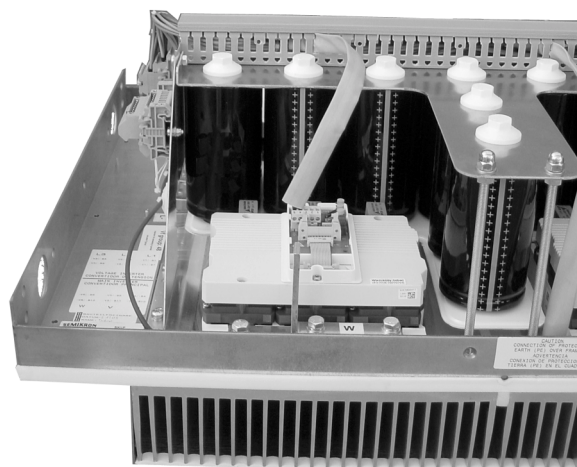
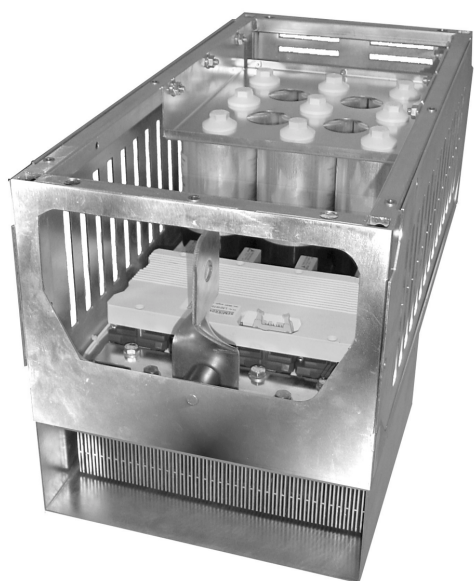
¹⁾ Currents are calculated for a forced air configuration without thermal stacking, heat sink for SKiiP 3 is PX16, with SKF16B fan.

First value: Maximal permanent current without overload; Second value: nominal current, with 150 % overload at 2 Hz (U/f constant)

Ratings are: $V_{dc} = 350, 540$ or $950 V_{dc}$, switching frequency = 3 kHz, ambient temperature = 35 °C, $V_{ac} = 230, 400$ or $690 V_{RMS}$ sinus output current

²⁾ Power rating is for a $\cos \varphi = 0,85$ and constant nominal conditions

SEMISTACK® using SKiiP® 3 for wind generators (detail view)



Modular SEMISTACK® using SKiiP® 3 to give 1/6th of a 4-Quadrant Converter (700 kW, 660 Arms) for wind generators up to 2 MW

All SEMISTACKs can be manufactured for a wide range of current and power ratings and also cooling methods (natural, forced-air or water), depending on customer-specific requirements. Please contact SEMIKRON for more information.