

1500V_{DC} in Solar?
We cover all your needs.



1500V Solar Applications

Power Modules / IPMs / Power Electronic Stacks



Power Modules

SEMITOP

SEMITOP E1/E2

MiniSKiiP

SKiM 4

SEMiX 5

SEMITRANS 10

IPMs

SKiiP 4

Power Electronic Stacks

Power Modules for 1500V applications

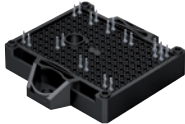
- Broad portfolio of 2-level and 3-level modules
- Up to 750kW without paralleling with SEMTRANS 10
- All connection technologies available: solder pins, press-fit pins, screw connectors and spring contacts
- Plug & play drivers

Overview of 3-level modules for 1500V solar applications

NPC	SEMİTOP MLI	1200V	20A up to 150A
	MiniSKİİP MLI	1200V	up to 150A
	SKİM 4 MLI	1200V	300A up to 600A
	SEMİX 5 MLI	1200V	200A up to 300A
	SEMİTRANS 10	1200V	up to 1200A
T-NPC	SKİM 4 TMLI	1700V / 1200V	up to 300A
	SEMİX 5 TMLI	1700V / 1200V	200A up to 300A



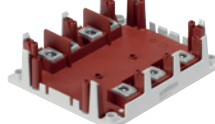
SEMİTOP



SEMİTOPE1/E2



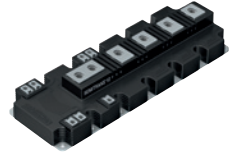
MiniSKİİP



SKİM 4



SEMİX 5



SEMİTRANS 10

8kW

750kW

IPMs for 1500V applications

- Dedicated SKİİP 4 version for 1500V PV applications
- 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

SKİİP 4 product range

1700V SKİİP 4 for 1500V PV



IGBT half bridges in parallel

3

4

6

$I_{c@T_s} = 25^\circ\text{C}$

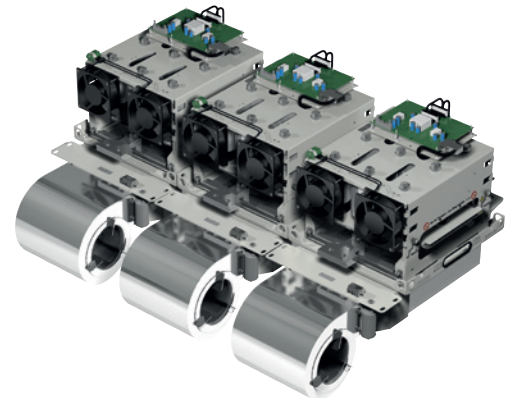
1800A

2400A

3600A

Stacks for 1500V applications

- Fast time-to-market with ready-to-use power stacks
- Customized designs for individual customers applications
- Including SEMIKRON drivers with ASIC chipset for maximum reliability
- UL certification
- IntelliOff function for 1500V DC voltage



Key features

- Comprehensive portfolio from power modules to IPMs and complete power stacks
- Fast time-to-market with ready-to-use power stacks
- Comprehensive product line of 3-level power modules
- Flexible design for customized stacks
- Large power range incl. multi-megawatt inverters
- Maximum power density up to 5.7kVA/litre

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