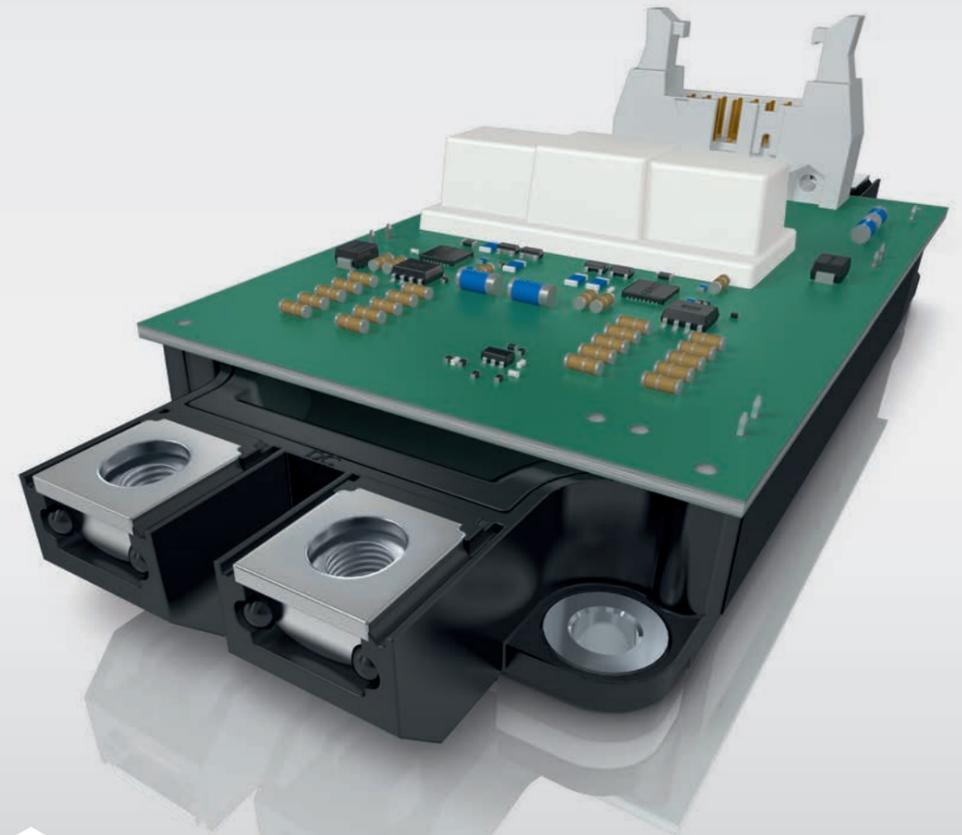




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Note: All information is based on our present knowledge and is to be used for information purposes only. The specifications of our components may not be considered as an assurance of component characteristics.

## Robust IGBT Driver for Press-Fit Mounting



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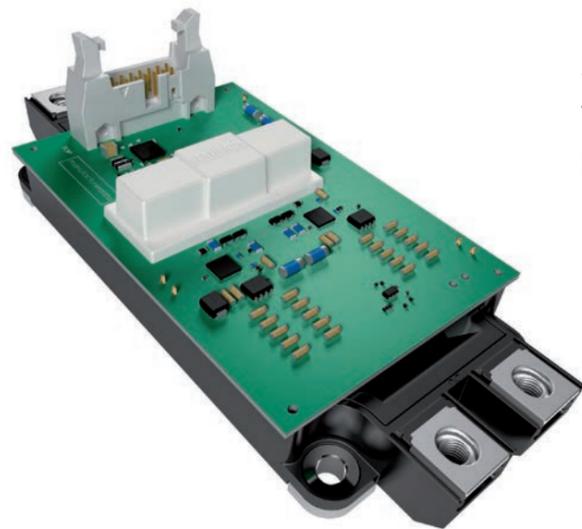
## SKYPER® 12 PF

Drives up to 600A and 1700V

-   
Motor Drives
-   
Solar Energy
-   
Power Quality
-   
Urban Transport Equipment



# SKYPER®12 Press-Fit



SKYPER 12 press-fit for 17mm modules with new mixed signal ASICs

## Benefits

Easy assembly, electrical robustness, and a long service life: The new SKYPER 12 press-fit half-bridge driver was developed with these aspects in mind. It is pressed directly onto the IGBT module, which means that there are no costs for an adapter board, cable splices, and associated assembly and soldering processes.

A new generation of mixed-signal ASICs achieves a high level of integration. With 30% fewer components than available plug and play solutions, the driver improves the reliability significantly. This means that safe IGBT control is ensured even for the long working lives of industrial drives.

## Applications

The SKYPER 12 press-fit offers the benefits of digital signal consistency while maintaining full performance. Ambitious applications such as medical, UPS, process control or industrial drives are securely powered.

## Performance

Technology	Parameter
	Plug and Play
$V_{ce}$	600 to 1700V
$Q_{OUT/channel}$	5 $\mu$ C
$I_{outPeak}$	12A
$V_{isol}$	4kV
$I_{outAve}$	40mA
$f_s$	20kHz
$V_{supply}$	15V
$V_T$	15V

## Key features

- Safe electrical insulation
- ROHS compliant
- UL recognised
- SOA qualified module-driver bundle
- Dynamic short circuit protection with soft-off
- Insulated over-temperature shut down
- EMC optimised interface
- Short-pulse suppression
- Internal dead time generation
- Insulated power supply with stabilised gate voltages

# Robust IGBT Driver for Press-Fit Mounting

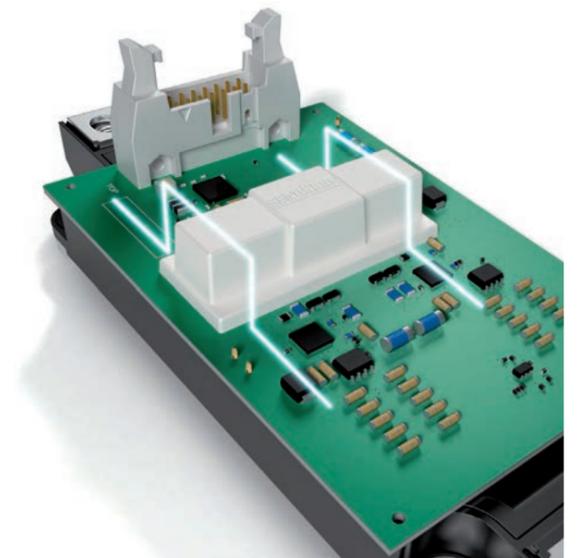
## Fast press-fit assembly

- Direct press onto the module without adapter boards
- Plug and play without additional modification process
- For SEMiX press-fit and EconoDual modules



## Robust driver technology

- 30% fewer components than available driver solutions
- Stable delay times over the entire temperature range with mixed signal ASICs
- MTBF Rate over 5 million hours at full load (SN29500)
- Metal bag ASIC housing for best temperature and noise performance
- Short-pulse suppression, robust interface and square-wave signal transmission ensure safe gate control in noisy environments



## Safe gate control

- Reduced overvoltages with soft-off
- Insulated over-temperature shut down
- Primary and secondary side supply voltage monitoring
- Fast  $V_{ce}$  monitoring with MELF diodes

