

k.Auxiliary SiC Inverter Module

SILICON CARBIDE TECHNOLOGY FOR AUXILIARY CONVERTERS



- 50 kVA power module
- Natural air convection cooled
- Seamless integration in Kiepe's auxiliary converter Function Module Concept (FMC)
- Advantages compared to IGBT technology:
 - 30 % higher power density
 - 40 % weight reduction
 - 40 % more power at same cost
 - Noiseless, switching frequency above 20 kHz

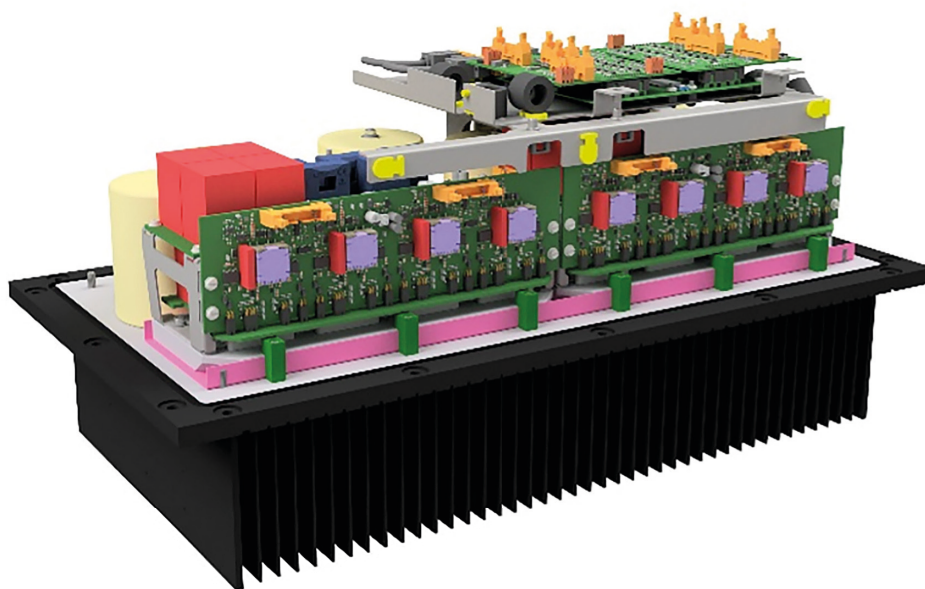
Kiepe Electric Function Module Concept (FMC)

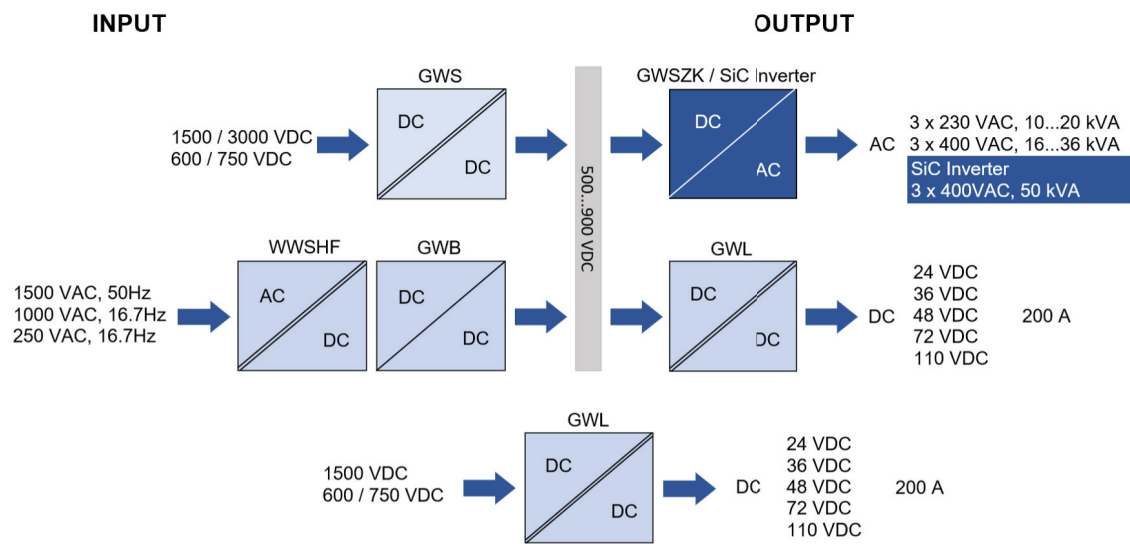
Whether it's for the lighting or the loud-speaker system, the coffee machine in the on-board restaurant or the power sockets at the passenger seats, the passenger information system or the air conditioning: Kiepe auxiliary converters provide power on railway trains, underground and suburban trains or busses and are designed to operate with all standard UIC catenary supply voltages.

Kiepe Electric patented isolating transformer topology achieves very high efficiency rates of more than 95 percent. Designed to produce as little power loss as possible, Kiepe auxiliary converters are natural air convection cooled.

Kiepe Electric auxiliary power converters have an MTBF rate of >50,000 h and are designed to remain maintenance-free for 20 years or more.

Kiepe auxiliary power converters are structured with standardised modules and are individually scalable (Function Module Concept - FMC). Depending on the technical requirements, e.g.: the input voltage(s), output power(s), number and type of energy consumers, etc. – Kiepe auxiliary converter FMC-modules are engineered and customized to fulfill the most demanding form, fit and function requirements.





Technical data

Input	750 VDC (stabilized intermediate voltage)
Output	3 x 400 VAC 1 x 50 kVA, 20 ... 75 Hz 3 x 400 VAC, 2 x 25 kVA, 20 ... 75 Hz
Energy Efficiency	99 %
Maintenance	maintenance free
Noise emission	noiseless (switching frequency above 20 kHz, no ventilators)
Weight	50 kg
Dimensions	650 x 350 x 500 mm (lxhxb)

