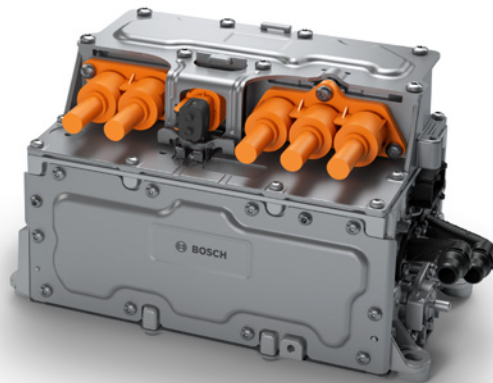


Inverter INVCON 3.3 OHW

Power electronics to control Bosch electric motors in mobile machinery

For emission-free driving and precise working in off-highway applications



high
functionality

due to integrated torque and speed controller

perfectly
tuned

on the Bosch off-highway electric motors
 SMG180 and SMG220

maximum
safety

in operation due to overload protection and
 high performance levels

TECHNICAL CHARACTERISTICS

Voltage range	
High voltage	180 bis 430V
Low voltage	10.6 bis 15.0V
Maximum power	140 kW
Maximum DC current	400A
DC/DC converter	up to 2.7 kW
High voltage A/C compressor	up to 17 kW
Dimensions	327 × 191 × 192 mm
Weight	10 kg
Protection class	IP6k6k, IP6k9k
Cooling	Water-glycol mixture Si-OAT 50:50, 6–8l/min, 65°C
Ambient temperature	–40 ... +85°C
Communication interface	CAN 2.0A, 500 kbit/s
Performance level	PL c
CE conformity	EMC Directive 2014/30/EU Machinery Directive 2006/42/EC RoHS 2011/65/EU

- ▶ Configurable software and control parameters allow flexible use in different applications.
- ▶ Integrated DC/DC converter and A/C compressor connection for maximum functionality
- ▶ Developed and tested according to Bosch high volume production process for highest reliability