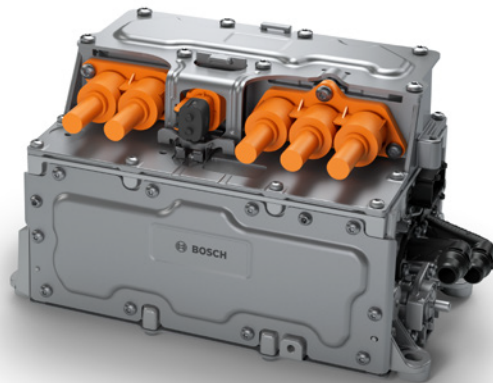


# Inverter INVCON 3.3 OHW

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	205 – 425 V
Low voltage	10.6 – 15.0 V
Maximum power	140 kW
Maximum DC current	400 A
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, 6–8 l/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