

## 48 V Air-Cooled Belt Starter Generator (BSG)



Cost-efficient, compact solution for mass hybridization. Advanced start-stop, coasting, and electric boost.

- Benefits**
- > Air-cooled BSG with high power density and integrated inverter
  - > Generates high CO<sub>2</sub> benefits together with significant drivability improvements
- Technical Information**
- > Peak torque: 60 Nm
  - > Peak power: 12 kW in generator mode
  - > Speed: Up to 20,000 rpm continuous
  - > Weight: <10 kg
  - > Ambient temperature: -40°C up to +120°C
  - > Cold start approved at -30°C
  - > Stack length adjustable (40 up to 80 mm)
  - > Safety: ASIL-B

## 48 V Liquid-Cooled Belt Starter Generator (BSG)



High performance, cost efficient mild hybrid solution. Advanced start-stop, coasting, and electric boost.

- Benefits**
- > Liquid-cooled BSG with highest power density
  - > Generates high CO<sub>2</sub> benefits together with significant drivability improvements
  - > IP6K9K, robustness against water and dirt
  - > No debris/dust, no service required
- Technical Information**
- > Peak torque: 60 Nm
  - > Peak power: 15 kW in generator mode
  - > Speed: Up to 20,000 rpm continuous
  - > Weight: <12 kg
  - > Ambient temperature: -40°C up to +140°C
  - > Cold start approved at -30°C
  - > Stack length adjustable (40 up to 80 mm)
  - > Safety: ASIL-B