

eDS – electric Drive System Mid+ w/ TV

The eDrive system is equipped with the small-packaged twin-clutch torque vectoring system. Together with next-gen technology options in the e-motor, inverter, gearbox and intelligent software strategy it contributes to best-in-class efficiency, safety, convenience and dynamics.



Features and Specifications

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|---|------------------|
| • Peak axle power: | 160 kW for 30 s |
| • Peak axle torque: | 3,750 Nm |
| • Cont. axle torque: | 1,500 Nm |
| • Output speed: | 1,300 rpm |
| • Max. capacity per clutch: | 3,000 Nm |
| • Superposition torque at max. axle torque: | 2,250 Nm |
| • Feature: | torque vectoring |

Competitive advantage/differentiators

- **Efficiency**
150 W drag loss at 50 kph or
94 % max. efficiency
91.6 % avg. efficiency WLTC
- **Safety**
2,250 Nm TV superposition torque
- **Convenience**
1 ms control loop of native speed interface
- **Dynamics**
< 100 ms response time

Applications/benefits

- C, D, E VAN Segment BEVs / PHEVs
- **Package**
Package neutral torque vectoring clutch integration

SOP

Ideation

Discovery

Concept

Development

Serial Preparation

in Production