Explore our Technologies

eTurbo™

for Commercial Vehicles
Turbocharged Engine Benefits with eTurbo™

- Single component solution for electrified boost assistance and recuperation
- Responsive direct control of boost and Air/Fuel ratio (with or without VTG)
- Enables significant downspeeding and downsizing without performance penalty
- Transient performance supplemented with motor torque allowing larger turbine match for improved fuel economy
- Excess exhaust energy is converted into electrical energy instead of wastegated
- Active map shifting to increase total air system efficiency

How it works

- A turbocharger with a (single-shaft) motor attached, can serve as either a motor or a generator
- Electric motor can assist the compressor to provide supplemental boost air to the engine
- Electric motor (generator) can harvest excess turbine energy from the exhaust flow
- Electrical function can be turned off to return it to normal turbocharger function
- Can help drive EGR on demand by increasing backpressure on the engine

Product Features

- High temperature permanent-magnet motor
- 48 – 450 VDC voltage versions
- Up to 17 KW continuous power
- Up to 23 KW peak power
- Water and oil cooled
- B50 – B70 frame sizes
- Corresponding power electronics controller also available

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