



## Mid-Series Specifications

# Multi-Mode Electric Transmission

### System Specifications:

- ✦ Completely integrated 300HP 3-speed BEV to include inverters, heat exchangers, water pump, oil pump and pan.
- ✦ The MID series come complete with integrated powertrain controller, control software, and default calibration.
- ✦ The Mid series uses a Ford 6R100 production Ravigneaux gear with ratios of 2.74, 1.53, and 1.
- ✦ The MID series is sized for classes 1-6 with a max torque 2200 NM on the output shaft with a top speed of 8000 RPM.
- ✦ The clutches are patented all electric clutches with extreme efficiency and power density.
- ✦ All versions of the powertrain include electric park and hill hold function.

### Technical Specifications:

- ✦ Weight: 100 Kg
- ✦ Overall dimensions: L750mm x W370mm x H405mm
- ✦ Peak Power rating/Voltage: 225KW @440VDC
- ✦ Operating Voltage: up to 480VDC
- ✦ Max peak torque: 500 Nm
- ✦ Max cont torque: 230Nm
- ✦ Max Speed: 10,600 RPM
- ✦ Ratios: 1st - 2.73:1 2nd - 1.53:1 3rd - 1:1
- ✦ Motor and Trans cooling: Dex VI

### Motor Specifications: (IM -225 – Integrated Module)

- ✦ Peak Torque: >500Nm
- ✦ Peak Power: 225kW
- ✦ Continuous Torque: 230Nm
- ✦ Continuous Power: 100kW
- ✦ Maximum Speed: 1200rpm
- ✦ Weight: 64 kg
- ✦ Motor Cooling Medium: Dexron VI
- ✦ Inverter Cooling Medium: 50% E.G./ 50% Water
- ✦ 80°C (derate from 80 to 100°C)
- ✦ Combined Efficiency: 95% peak (@200Nm, 5500rpm)