

HDSRM300

Next Generation Commercial Vehicle Traction



No rare earth magnets

Lower cost, improved sustainability and reduced supply risk compared to permanent magnet (PM) motors.

Off-the-shelf power electronics

Unlike conventional SRMs, HDSRM runs with any suitable commercially available 3 phase inverter. (International Patent Pending)

Designed for volume manufacture

Production line established in the North East of England, capable of building 12,000 units per year.

Efficient where it counts

Design optimised to be more efficient than a PM or induction motor at normal commercial vehicle operating points.

High temperature operation

No risk of demagnetisation at higher temperatures enabling a shared coolant loop with the IC Engine.

Robust and reliable

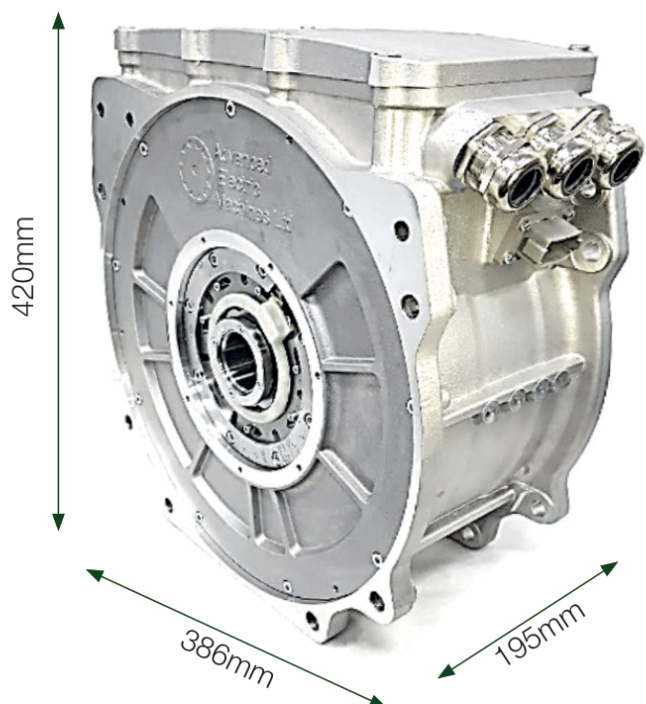
Built for improved robustness with inherently fewer potential failure modes.

Modular architecture

Up to three HDSRM motors can be combined with custom transmissions to meet differing application requirements.

Parameter	Performance
Torque	325Nm for 425Arms
Power (Peak/ Continuous)	to 160kW @ 700V / to 75kW (65degC inlet)
Efficiency	>95% from 4000rpm to 8000rpm
Mass	80kg (dry)

All specifications subject to change without notice.



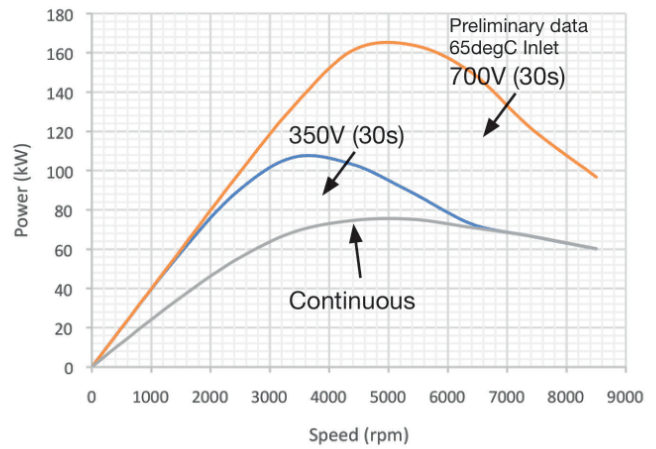
HDSRM300

Class leading performance and modularity



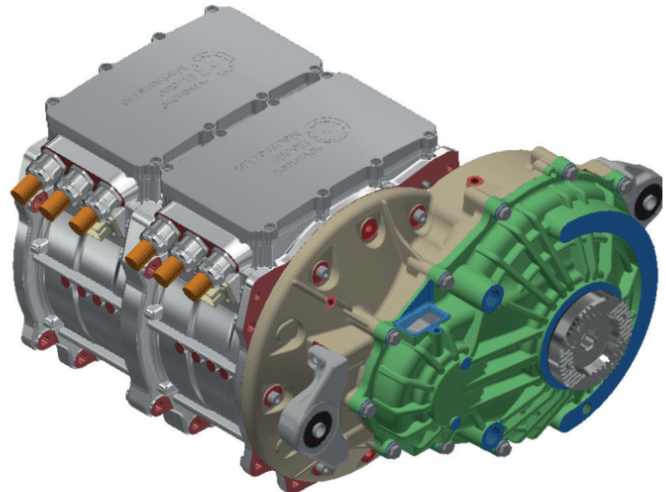
Single motor performance curves

HDSRM produces high levels of continuous performance, making it ideal for commercial vehicles and other industrial applications. HDSRM be configured for 48V to 800V.



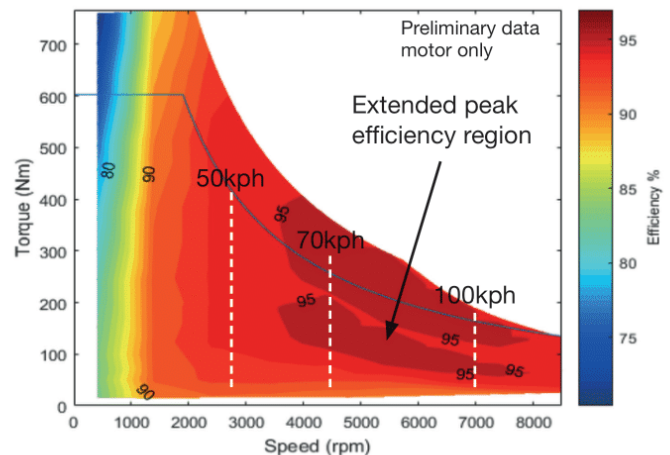
Modular motor/generator/transmission/driveline

HDSRM can be configured as up to three motor / generators with or without supplied transmission. HDSRM will work with a wide variety of proven off-the-shelf 3 phase inverters (e.g. Semikron).



Efficiency boost technology

When configured for two motor tandem operation, the unique HDSRM design offers patent pending efficiency boost technology, extending the peak efficiency region by up to 80%.



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