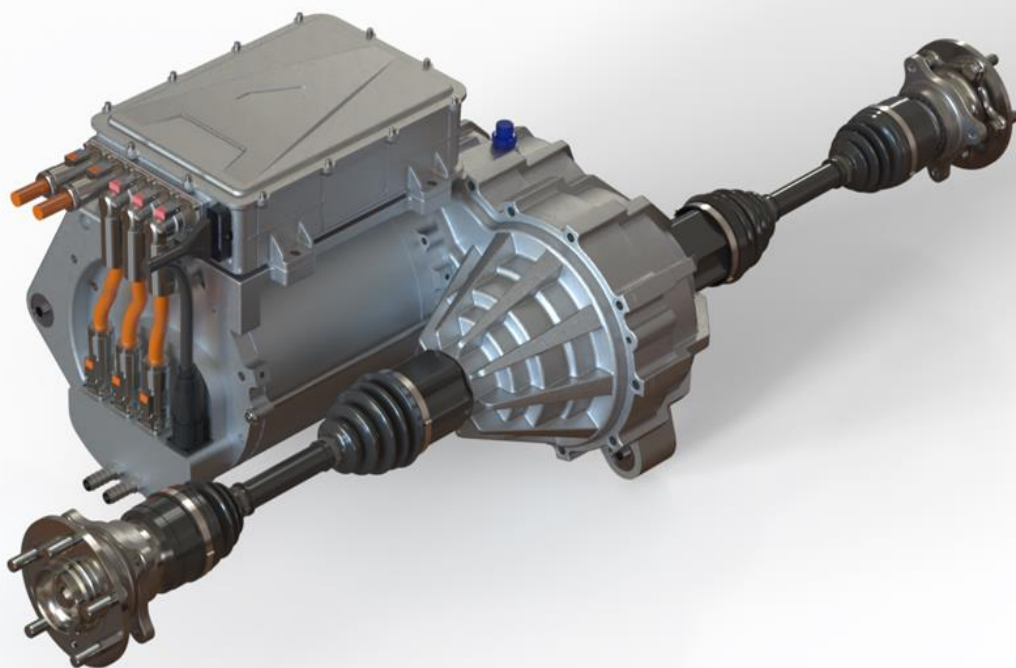


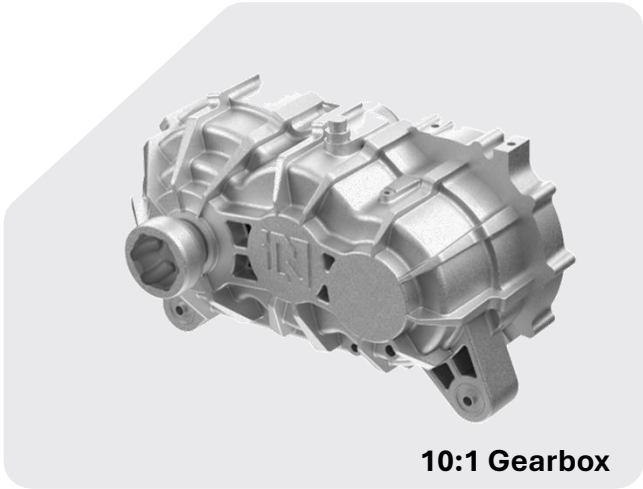
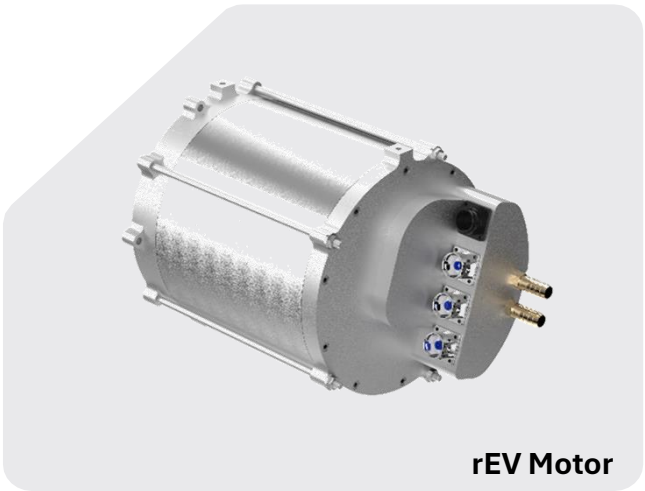
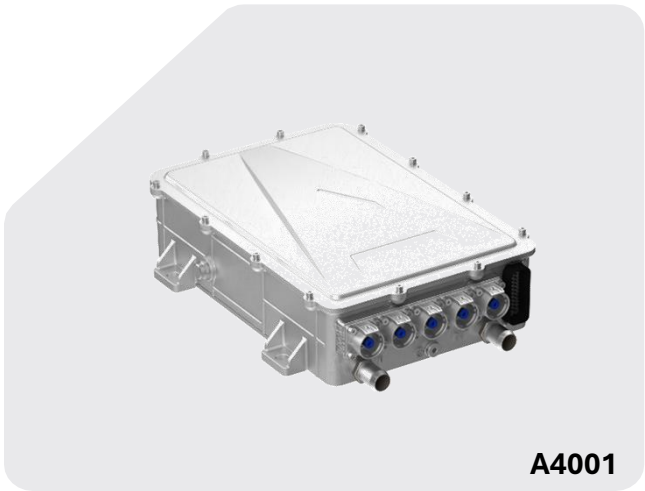
 **traction**TM
rDA4001-5U-100

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Inverter Features

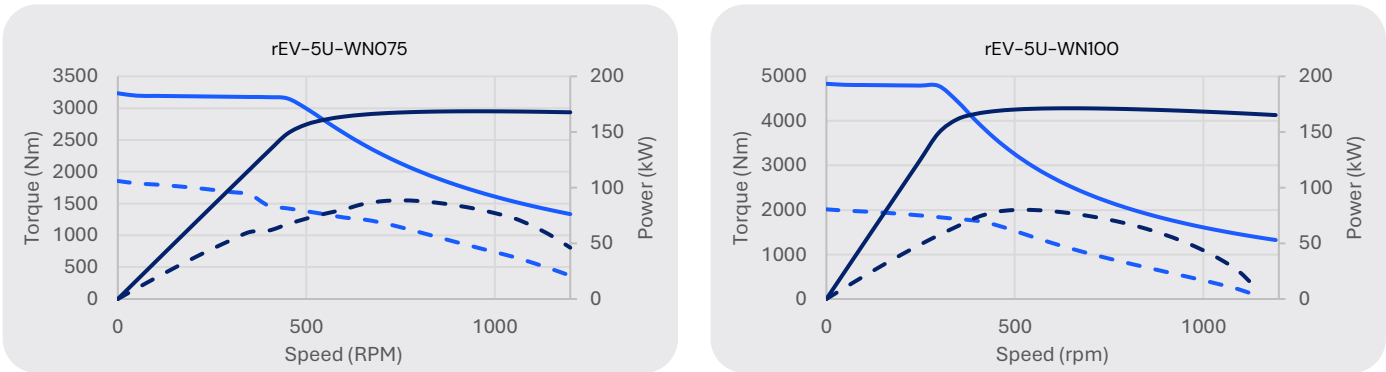
Code of Regulation and Standards	Name of Regulations and Standards
GB/T 18488.1-2015	Electric motors and controllers for electric vehicles Part 1: Technical requirements
GB/T 18488.2-2015	Electric motors and controllers for electric vehicles Part 2: Test methods
GB/T 2423.17-2008	Environmental testing of electrical and electronic products Part 2: Test methods: salt spray
GB/T 17619-1998	Limits and measurement methods of electromagnetic radiation immunity of motor vehicle electronic and electrical components
GB/T 26680-2011	Technical Specifications for Permanent Magnet Synchronous Generator Controller

Gearbox Features

Feature	Detail
Gear Ratio	10.07:1
Oil	3 litre of 75W-90
Differential	Helical gear LSD
Mounting	Two bushed mounting points (See p4)



EDU Data



Electrical Specification	UNIT	
Motor / Generator Type		3-Phase Radial Synchronous Flux Permanent Magnet Motor/Generator
Applications		Automotive Motorsport, Off-Highway, Motorcycle, Passenger Vehicle, Commercial Vehicle
DC Voltage (Motor)	VDC	250-400
Maximum Phase Current (Motor)	Arms	410
Rotor Position Sensor		Resolver

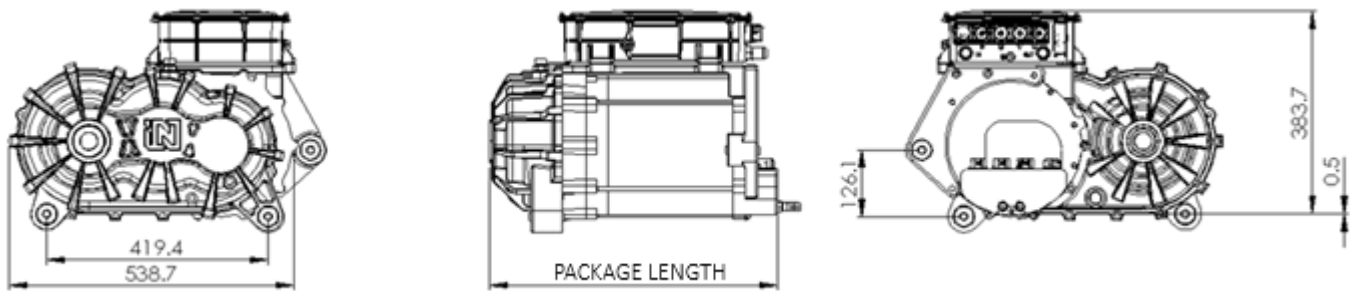
Performance Specification		rEV-5U-WN075	rEV-5U-WN100
Peak Torque (For 10s)	Nm	3234	4834
Peak Power (For 10s)	kw	169	171
Continuous Torque	Nm	1855	2014
Continuous Power	kw	89	80
Torque Density Peak	Nm/kg	27.0	40.3
Power Density Peak	kW/kg	1.4	1.4

Mechanical Specification		
Motor Cross Section Dimension	mm	265.6
Package Length	mm	544.6
Mass	kg	120
Maximum Speed	rpm	1539
Axial/Radial Shaft Load	N	100N Axial, 200N Radial
Shaft Output		Internal Spline
Ingress Protection	IP	IP67
HV Connection Type		PowerLok Connectors

Thermal Specification		
Cooling Method		Water-Glycol 50:50
Coolant Inlet Temperature	°C	-10 to 85
Coolant Inlet Pressure	bar (gauge)	0.5-3.0
Maximum Stator Winding Temperature	°C	180
De-Rate Stator Winding Temperature	°C	165
Temperature Sensor	-	PT1000
Ambient Temperature	°C	-20 to 100

NOTE: 1) Mass: excludes cables and coolant tubes, 2) Peak Values are simulated using 400VDC and 410Arms, 3) Continuous Values are simulated using 400VDC, 70°C inlet temperature and 12 l/m flow rate, 4) The data provided in this datasheet is for guidance only and does not form part of any contract. 5) Motor, inverter, gearbox should undergo application testing to validate performance.

Motor Geometry



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