

TM4 SUMO™ HP Motor / Inverter System

Features

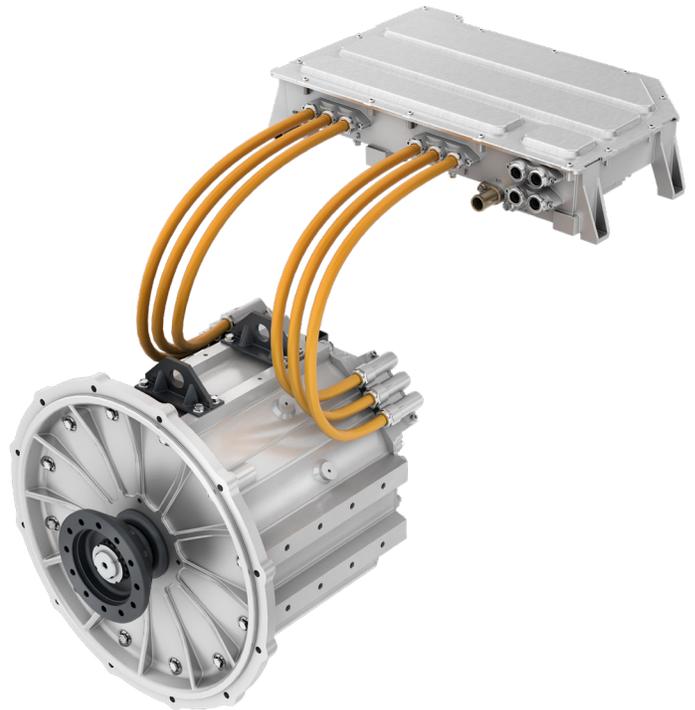
- Peak power: Up to 500 kW
- Peak torque: Up to 2450 Nm
- Max operating speed: 4500 RPM

Benefits

- High-power permanent magnet motor / generator and inverter combinations
- Seamless integration with e-Transmissions and e-Axles
- Control algorithms optimized for power or generation applications

Standards

- System protection: IP67 / IP6K9K
- Automotive components: AEC-Q100 / AEC-Q101 / AEC-Q200
- Electromagnetic compatibility EMC: Main automotive international standards
- Shock and vibration standards: GMW3172 Sprung masses
- Max coolant inlet temperature: 65°C
- Coolant type: 40/60 water-glycol
- Toxic materials and flammability: ROHS, ELV, UL94-V0
- External corrosion resistance: Salt mist, chemical products



Ideal for High-Power Applications.



TM4 SUMO™ HP Motor / Inverter System

The TM4 SUMO HP consists of electric powertrains dedicated to high-power applications.

Motor Features

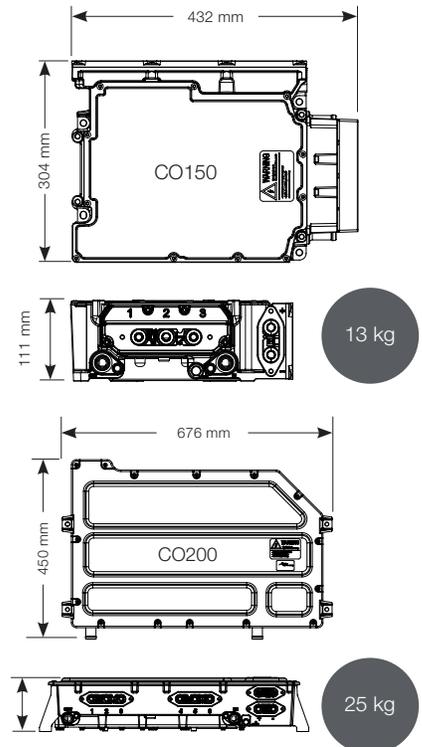
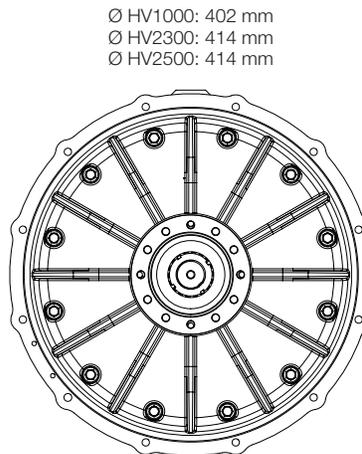
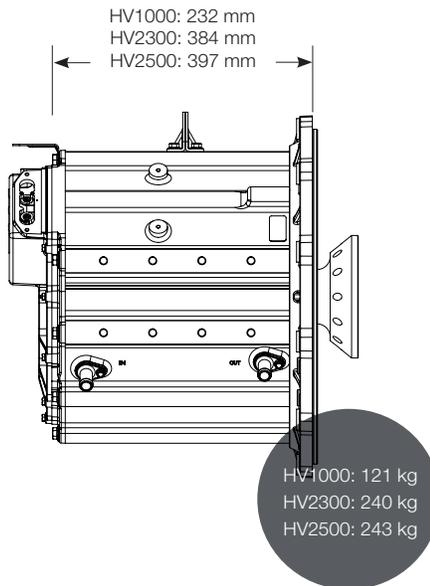
- Proven permanent magnet technology for optimal efficiency
- Low electro-magnetic audible noise
- Low-cogging and ripple torque for better NVH
- Four-quadrant operation
- Thermal protection
- Quick Connect option with HVIL for safe and easy installation or maintenance
- Range of male and female spline interfaces available

Inverter Features

- 3-phase or 6-phase high-voltage inverter
- Variable switching frequency
- Reflex™ gate driver technology for high power and current densities
- EMI Filter
- Best-in-class power density
- High efficiency
- Quick Connect option with HVIL for safe and easy installation or maintenance

System	Inverter	Peak Power	Continuous Power	Peak Torque	Continuous Torque	Max Operating Speed	Voltage Range
SUMO HP HV1000-3P	CO150	205 kW	165 kW	1000 Nm	625 Nm	3800 RPM	300-750 Vdc
SUMO HP HV2500-6P	CO200	440 kW	340 kW	2450 Nm	1865 Nm	4000 RPM	300-750 Vdc
SUMO HP HV2300-6P*	CO200	500 kW	395 kW	2330 Nm	1745 Nm	4500 RPM	300-800 Vdc

600 Vdc, 45°C / *650 Vdc, 45°C
Specifications are subject to change



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Application Policy

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