PRODUCT IMAGES NOT YET AVAILABLE

Product series	TM4 SUMO LD
System model number(s)	SUMO LD MV800-3P-L-106
Motor model number(s)	LSM110E-MV-16R / LSM110E-MV-17R
Motor Control Unit model number(s)	CO150-MV-38

Standard system performance specifications

Standard system performance specifications	Value
Peak torque value (CAN Torque Request value)	775 Nm
Peak power value @450V	248 kW
Normal operating speed range	0 - 6500 RPM
Derating speed range	6500 - 6800 RPM
Overspeed speed range	6800 - 6950 RPM

Note: The values given above represent the standard performances to be expected of the system described in this specification document.

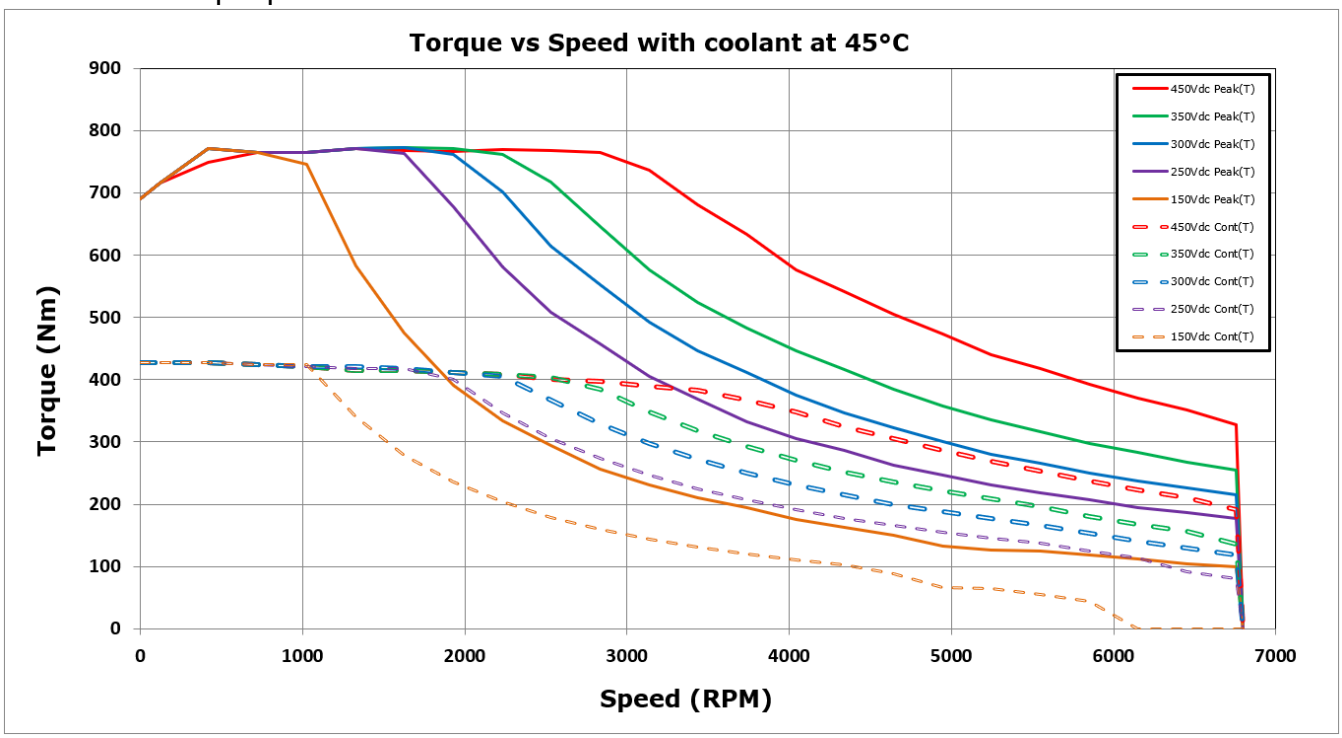
Theoretical system specifications (see Performance graphs)

Characteristics	Theoretical values ($350\ V_{DC}$ @ 45°C [2])	Theoretical values ($450\ V_{DC}$ @ 45°C [2])
Peak torque value [1]	775 Nm	772 Nm
Peak torque value at 0 RPM [1]	691 Nm	691 Nm
Continuous torque value	429 Nm	429 Nm
Peak power value [1]	192 kW	248 kW
Continuous power value	115 kW	148 kw

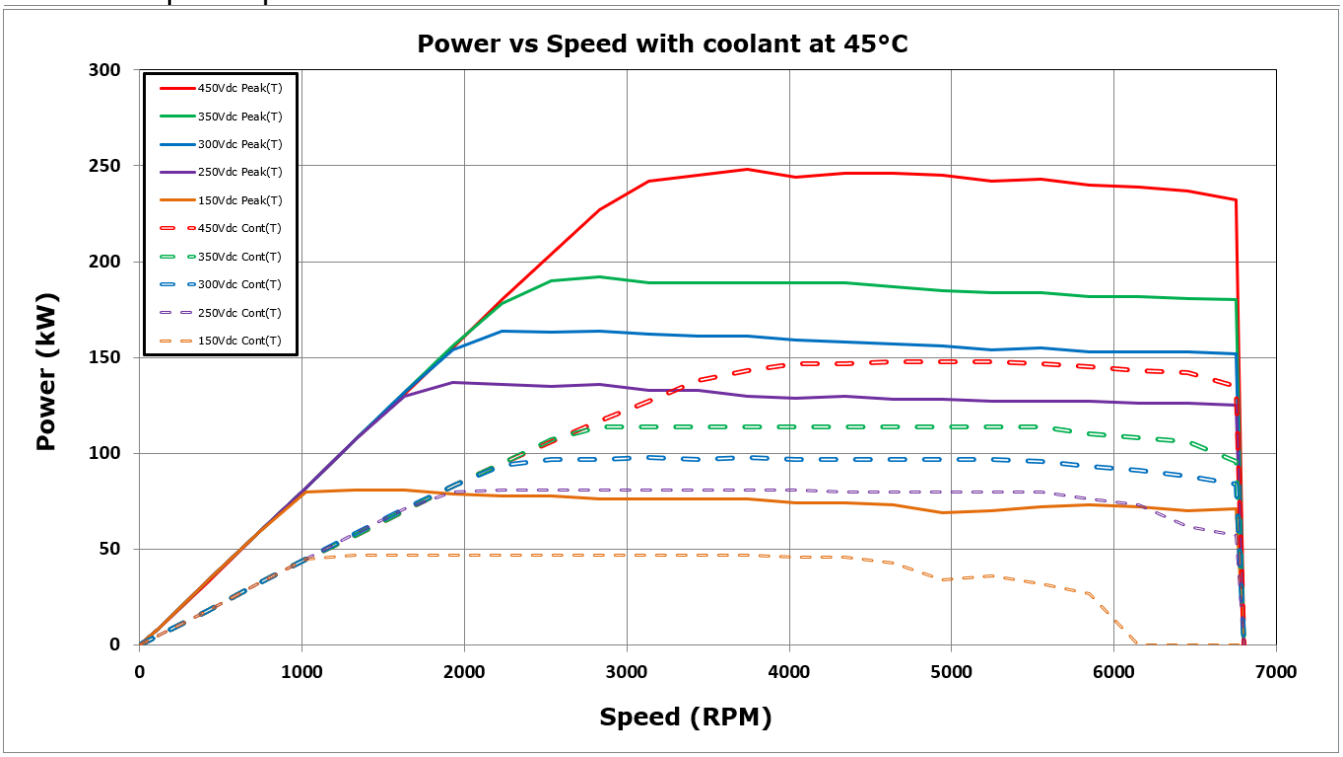
[1] Thermally stable initial condition is 60% of the maximum of motor coil temperature and ambient temperature of 25°C. Performance request versus obtained measured gap depends on operating conditions.

[2] Coolant temperature.

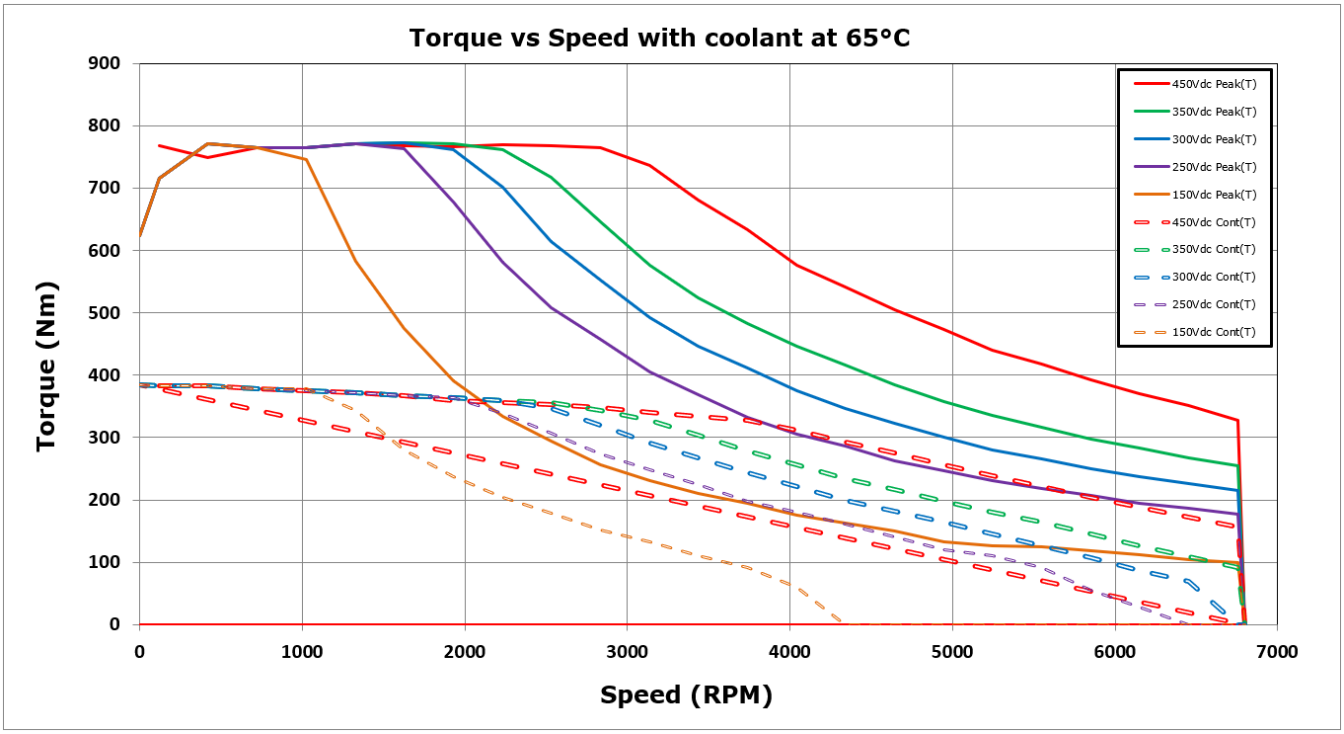
Theoretical torque performance with coolant at 45°C



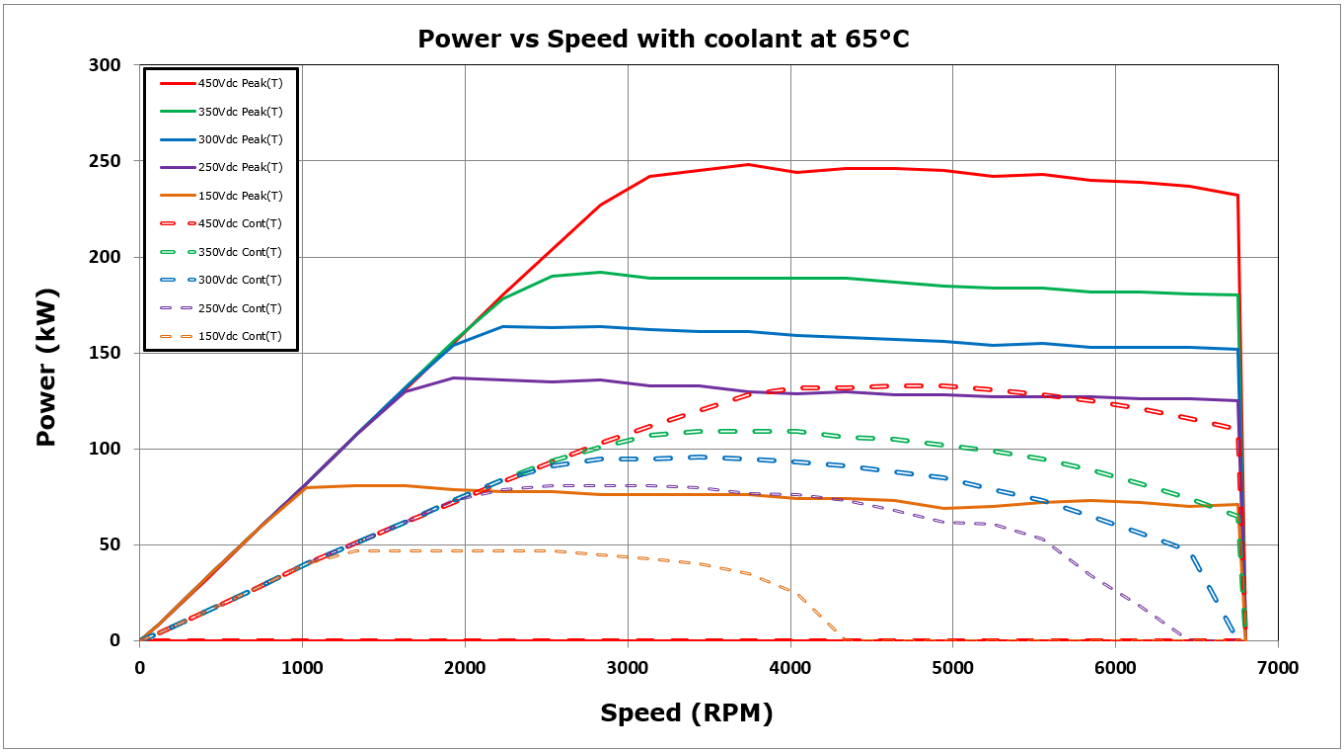
Theoretical power performance with coolant at 45°C



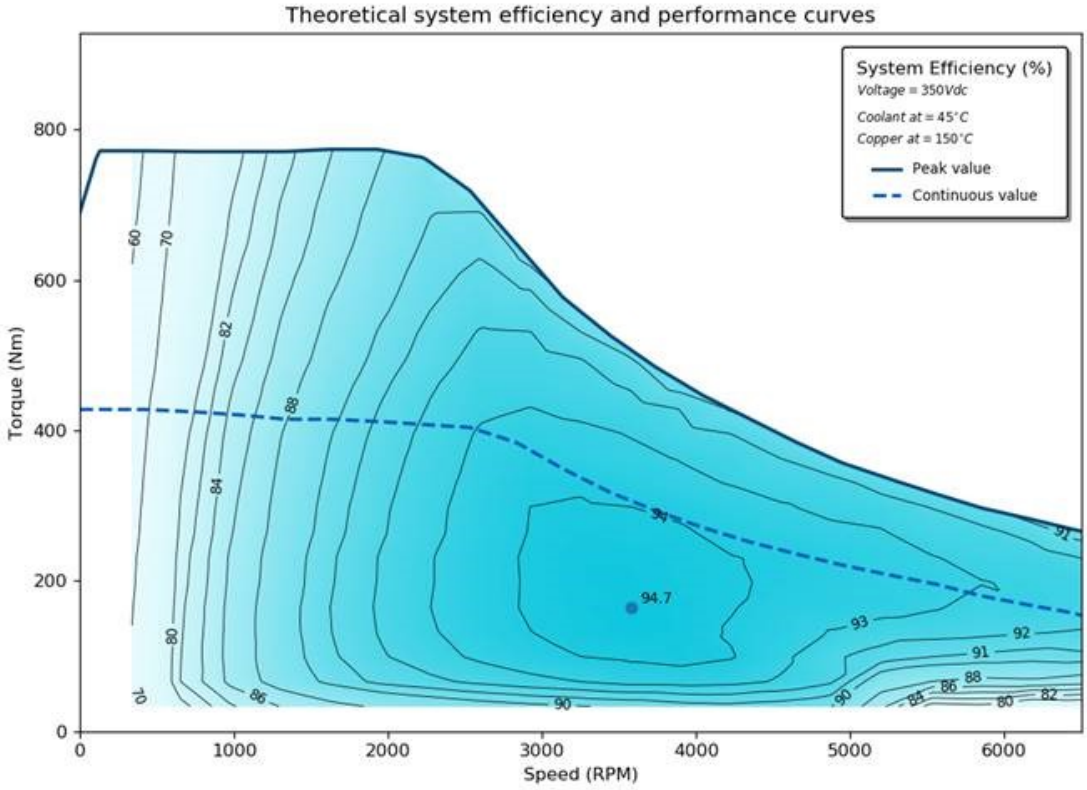
Theoretical torque performance with coolant at 65°C



Theoretical power performance with coolant at 65°C



Theoretical system efficiency at Tcu=150°C



Electrical specification

Parameters	Values
Traction battery	
Operating voltage	150 - 450 V_{DC}
Maximum non-operating voltage	480 V_{DC}
Auxiliary battery	
Operational range	8 - 32 V_{DC}
Maximum non-operating voltage	36 V_{DC}
Maximum steady state current	4.5 A_{DC} @ 12 $V_{DC;}$ 3 A_{DC} @ 24 V_{DC}
Maximum inrush current	< 10 A_{DC}
Maximum quiescent current	< 0.6 mA_{DC} @ 8 $V_{DC;}$ < 1.2 mA_{DC} @ 32 V_{DC}
CAN interface version	2.0b
MCU short-circuit protection	Yes
MCU over current protection	Yes
HVIL	Yes