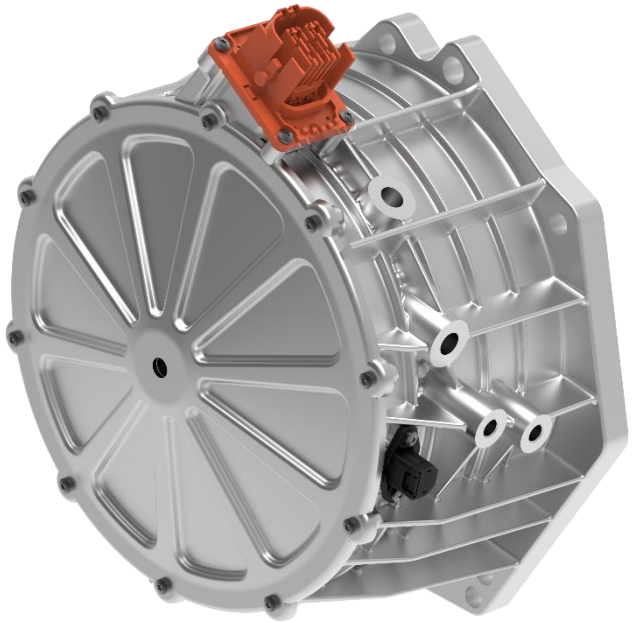
DATASHEET
MG 250

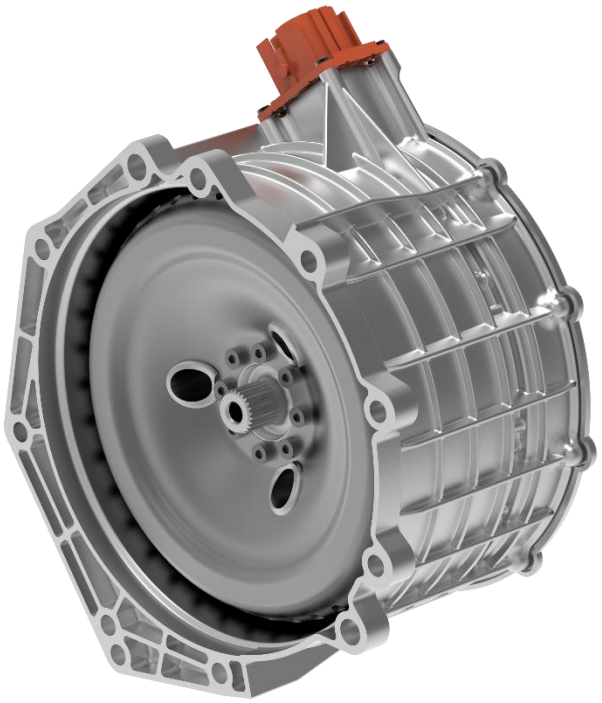
The DeepDrive MG 250 range extender generator delivers unmatched power density and efficiency in an ultra-compact form.

With its fully integrated SiC inverter, minimal material usage, and advanced control software, the MG 250 sets new standards for electrified propulsion and hybrid architectures.

Its low acoustic emissions, outstanding torque density, and exceptional functional integration make it the ideal choice for applications where space, weight, and efficiency are critical.

KEY FEATURES
- 250 Nm peak torque
- 120 kW peak power
- 190 Nm continuous torque
- 100 kW continuous power
- Fully integrated SiC inverter
- Outstanding efficiency
- Ultra-low noise emissions
- Class 5 EMC Filter
- Prepared for operation without dual-mass flywheel
- Compact & lightweight design with <26.5 kg system weight





For further information on the product, please contact

sales@deepdrive.tech

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PRODUCT DATA

NAME	SYM.	Value	CONDITIONS / COMMENTS
DC-voltage	U_{DC}	300 ... 900 Vdc	Nominal voltage U_{DC}=650 V
LV-Supply voltage	U_{LV}	8.5 ... 16.5 Vdc	Nominal voltage U_{LV}=12 V
LV-Supply current	I_{LV}	0.8 A	in operation, U_{LV}=12 V
Peak torque (30s)	M_{30s}	250 Nm	T_{Mag}=65°C
Cont. Torque	M_{Cont}	190 Nm	T_C=65°C, Q_C=8 l/min
Peak el. power (30s)	P_{30s}	120 kW	T_{Mag}=65°C, U_{DC}=650 V
Cont. el. power	P_{Cont}	100 kW	T_C=65°C, Q_C=8 l/min, U_{DC}=650 V
DC-current (30s)	$I_{DC,30s}$	200 A	T_{Mag}=65°C, U_{DC}=650 V
DC-current cont.	$I_{DC,cont.}$	180 A	T_C=65°C, Q_C=8 l/min, U_{DC}=650 V
Coolant temperature	T_C	-40 ... 75°C	derating of cont. >65°C
Coolant flow rate	Q_C	8 l/min	derating may occur at <8 l/min
Coolant type	water-glycol 50/50		
Pressure drop	Δp	250 mBar	Q_C=8 l/min, T_C=65°C
Speed	n_{max}	6,500 1/min	U_{DC}=650 V
System weight	m	26.5 kg	dry, no coolant
Rotor inertia	J	0.12 kgm²	Ready to use w/o DMF
Diameter	D_{max}	290 mm	excl. customizable mounting flange, see drawing
Length	l_{max}	165 mm	incl. inverter
EMC class	Class 5		unshielded Harness
Peak efficiency incl. inverter	η_{max}	96.3%	T_{Mag}=65°C, T_{Cu}=65°C, U_{DC}=650 V

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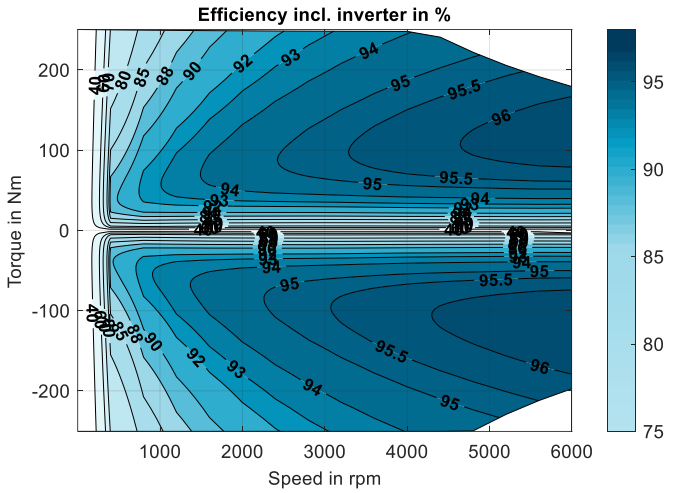
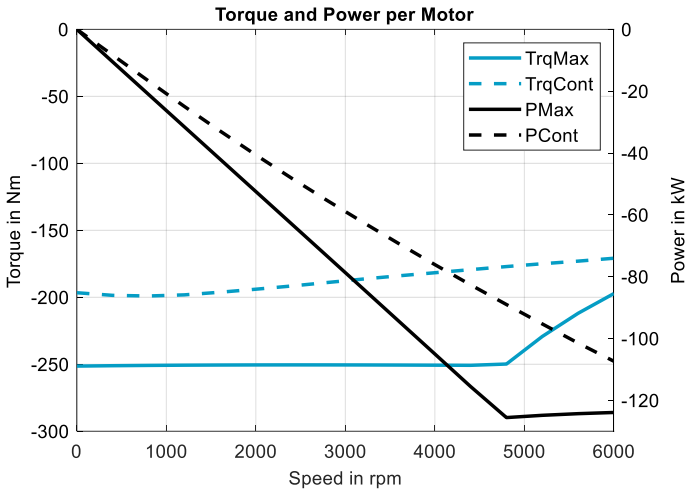
EFFICIENCY MAP AND OPERATING LIMITS





Conditions: T_{Mag}=65°C, T_{Cu}=65°C, T_C=65°C, U_{DC}=650 V

DRAWING & CAD ENVELOPE-MODEL

[on request]

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