



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
- 150 kW peak power
- 180 Nm continuous torque
- 120 kW continuous power
- Fully integrated SiC inverter
- Best-in-class torque & power density
- Advanced control & diagnostic software
- Outstanding efficiency
- Minimal material footprint
- Ultra-low noise emissions
- Compact & lightweight design





DATASHEET
MG 250

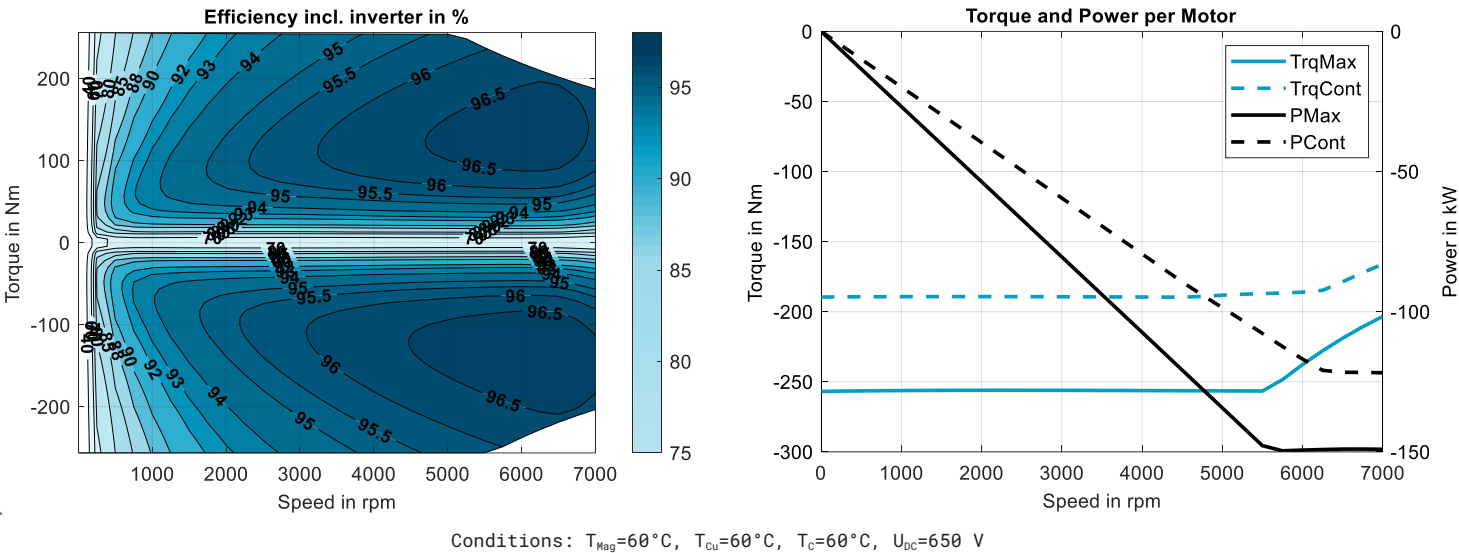
PRODUCT DATA

NAME	SYM.	MIN.	TYP	MAX.	UNIT	CONDITIONS / COMMENTS
DC-voltage	U _{DC}	400	650	800	V	
LV-Supply voltage	U _{LV}	8	12	16	V	
LV-Supply current	I _{LV}	–	1	1.3	A	in operation, U _{LV} =12 V
Peak torque (30s)	M _{30s}	–	255	–	Nm	T _{Mag} =60°C
Cont. Torque	M _{Cont}	–	180	–	Nm	T _c =60°C, Q _c =6 l/min
Peak power (30s)	P _{30s}	–	150	–	kW	T _{Mag} =60°C, U _{DC} =650 V
Cont. power	P _{Cont}	–	120	–	kW	T _c =60°C, Q _c =6 l/min, U _{DC} =650 V
DC-current (30s)	I _{DC,30s}	–	220	–	A	T _{Mag} =60°C, U _{DC} =650 V
DC-current cont.	I _{DC,cont}	–	180	–	A	T _c =60°C, Q _c =6 l/min, U _{DC} =650 V
Magnet temperature	T _{Mag}	-40	60	120	°C	
Copper temperature	T _{Cu}	-40	60	210	°C	
Coolant temperature	T _c	-40	60	90	°C	derating of cont. >60°C
Coolant flow rate	Q _c	2	6	12	l/min	derating may occur at <6 l/min
Coolant type	water-glycol 50/50				–	
Pressure drop	Δp	–	150	–	mBar	Q _c =6 l/min, T _c =60°C
Speed	n _{max}	–	7,000	–	1/min	U _{DC} =650 V
System weight	m	–	24	–	kg	dry, no coolant
Diameter	D _{max}	–	310	–	mm	excl. customizable mounting flange
Length	l _{max}	–	165	–	mm	incl. inverter
Peak efficiency incl. inverter	η _{max}	–	96.9	–	%	T _{Mag} =60°C, T _{Cu} =60°C, U _{DC} =650 V



DATASHEET
MG 250

EFFICIENCY MAP AND OPERATING LIMITS



DRAWING & CAD ENVELOPE-MODEL
[on request]