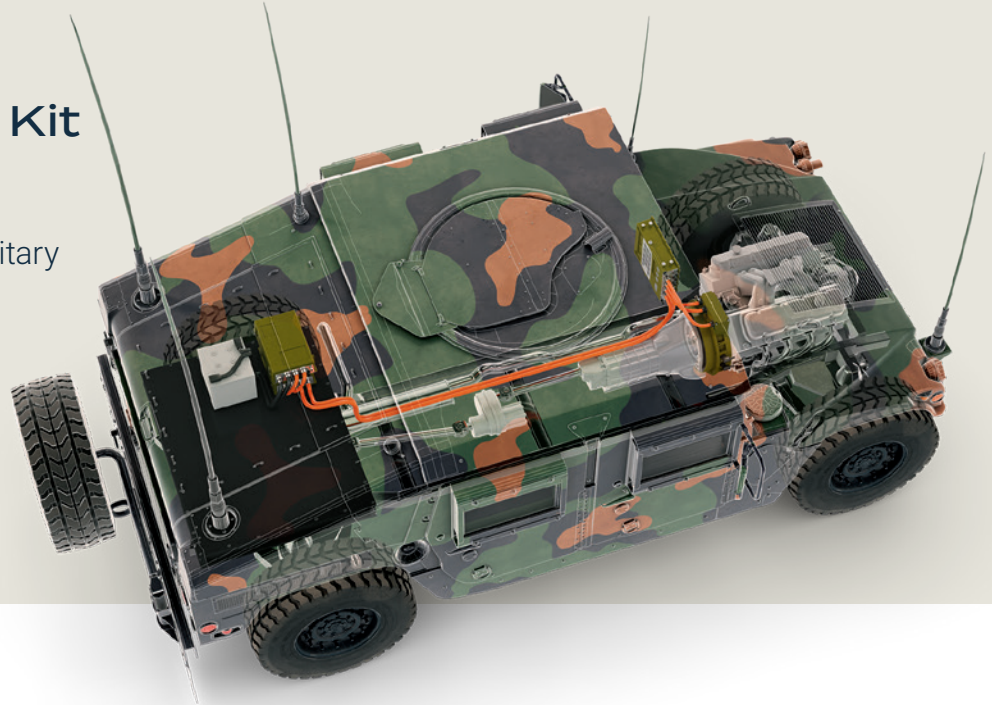


ELECTRIFICATION

## Silent Move Kit

/ Hybridisation for Military Wheeled Vehicles



**Integrated Starter Generator**



**Power Electronic**



**Charge Converter**



**High Voltage Distribution**



**Export Power Unit \***

Magnet-Motor's Silent Move Kit is the comprehensive core solution for energy and mobility requirements in a wide range of modern protected vehicles.

With its modular approach, the system delivers distinct military advantages such as suppressing the audible signature and increasing stealth capabilities. The hybrid electric drive system offers improved mobility and performance boost and provides sustainability benefits by reducing the reliance on fossil fuels.

In conjunction with a high voltage battery, it delivers highly reliable prolonged onboard electric power for silent watch capabilities when the engine is switched off.

As an extension to Magnet-Motor's Silent Move Kit, a DC Stabiliser provides export power functionality, thereby eliminating the need for external generators.

\* optional for Export Power





### Features

- Drive by wire
- Modular system
- Designed to MIL Std
- Ruggedized
- Industry standard communications protocols
- Scalable
- Silent move and silent watch
- Reduced fuel consumption
- Improved mobility
- Performance boost
- Enables enhanced onboard and export power
- Maintenance-free

# Silent Move Kit

## Technical Information

(typical application in light-to medium-weight wheeled vehicles)

COMPONENT	SPECIFICATIONS	MEASURE
<b>Integrated Starter Generator</b> 	Cold cranking torque	660 Nm
	Peak torque @ 0-2000 rpm	600 Nm
	Cont. torque @ 0-1500/2000 rpm	450 Nm
	Peak power @ 2000-4300 rpm	150 Nm
	Cont. power @ 1500-4300 rpm	80 kW
	Dimensions	SAE 3 x 216 mm <sup>3</sup>
	Weight	105 kg
<b>Power Electronic</b> 	Max power	300 kW
	Continuous power	130 kW
	Input voltage range	500 to 800 VDC
	Phase current (peak)	450 A
	Dimensions	441 x 314 x 111 mm <sup>3</sup>
	Weight	14 kg
<b>Charge Converter</b> 	Continuous power	10 kW
	Input voltage	500 to 800 VDC
	Output voltage	28 VDC
	Dimensions	410 x 260 x 90 mm <sup>3</sup>
	Weight	14 kg
<b>High Voltage Distribution</b> 	No of In / Out connections	6-12
	Fuses / disconnect switches	included
	Iso-Monitor	included
	Hybrid system controller	included
	Dimensions tailored to customer requirements	
<b>Export Power Unit</b> 	Continuous power	30 kW
	Input voltage	500 to 800 VDC
	Output voltage	600 VDC
	Voltage quality	MIL PRF 600
	Dimensions	410 x 260 x 90 mm <sup>3</sup>
	Weight	12 kg
<b>General specifications</b>	Protection type	IP 66/67
	Cooling temperature	75°C up tp 105°C water glycol de-rated
	Ambient temperature	-32 to 63°C
	Communication	CAN J1939
	Schock / vibration	MIL 810 G
	EMI	MIL 461 F
	Voltage quality	MIL Std 1275

### Trusted Partner.

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