

Field proven DC/DC Converter for electric and hybrid vehicle applications

Inmotion is a premier global supplier of power electronics to the industrial hybrid and electric vehicle industry. With our comprehensive product lineup for both high and low voltage hybrid/electric vehicles, Inmotion sets a benchmark for quality and reliability, ease of adaptation, and cost of ownership.

The DC/DC converter is designed for a wide range of input voltages and, with an adjustable 14/28V secondary voltage, it is ideal for most hybrid/electric vehicle applications. All models are available with CAN bus communication in order to seamlessly integrate into the vehicle control system.

Product Features

- **Best in class quality and reliability** achieved through superior design and manufacturing processes
- **Rugged IP6K9K design** suitable for the demanding environment of electric vehicles
- **Field proven control SW platform** used for on-highway and off- highway vehicles
- **Proven in use** since 2009
- Documentation in accordance with **AIAG PPAP** standard
- Extensive and powerful event handling and data logging simplifies troubleshooting and ensures **minimized vehicle down time**
- **Liquid (WEG) cooling** for minimized physical size
- Paralleling multiple units allows for **higher delivered power** at secondary voltage



Current and Output Ratings

Output voltage		350 VDC	600 VDC
14 VDC	Output current (A) S1	170	265
	Power (kW) S1	2.38	3.7
28 VDC	Output current (A) S1	170	265
	Power (kW) S1	4.75	7.5

Environmental

Operating temperature	-40° C to + 85° C
Minimum coolant flow	18 l/ min 65° C
Pressure drop	< 30 kPa at 18 l/min and 65° C
Storage temperature	-40° C to + 85° C
Protection class	IP6K9K
Chock and Vibration	ISO16750-3
Communication	CAN J1939 or CANOpen

Dimensions

Length	mm	510
Width	mm	384
Height	mm	128.5
Weight	kg	21

