

DATASHEET

Gen5- Size 9 Inverter (*Industrial*)

The Gen5-S9 motor inverter is well-matched to satisfy low volume prototype requirements for On and Off highway Electric and Hybrid Vehicles. It is specifically aimed at vehicle OEMs and system integrators to offer them a compact, lightweight, robust and cost-effective product for traction, hybridization, power generation and sub-system electrification.



The inverter can be paired with Turntide's high power density Axial Flux Motors, ideal for applications with a limited space envelope. Our products are used by some of the world's leading automotive and industrial companies in several innovative and demanding applications. The same quality and reliability is designed into each and every Turntide product.

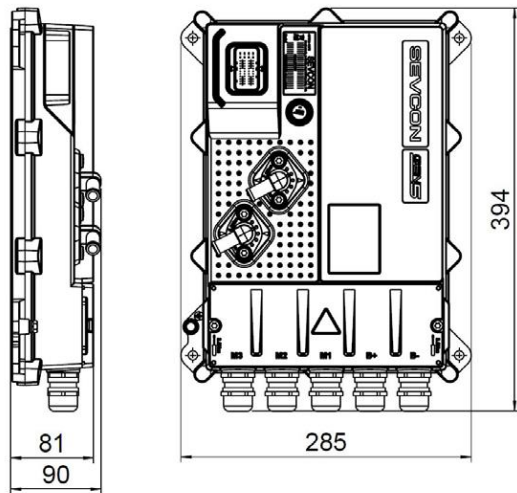
Features

- Supports AC Permanent Magnet synchronous motor and AC Induction motors
- Highly efficient advanced flux vector motor control
- Operates with a nominal 350VDC voltage
- Up to 400A_{rms} peak power output
- Up to 200A_{rms} continuous power output
- 12V or 24V supply

Specifications

Electrical			
Maximum Voltage (without derating)	420Vdc	Peak Current (1 min)	400A _{rms}
Nominal Battery Voltage	350Vdc	Continuous Current (60m)	200A _{rms}
Min Battery Voltage	128Vdc	100% Derating Voltage	450Vdc
Communications			
Communications	• CAN 2.0B	Control	CAN Slave Only
Communications Protocol	H-Protocol (J1939) and UDS		

Details are correct at time of publishing

I/O			
Encoders		<ul style="list-style-type: none">Absolute sin/cosUVW	
Thermistors		2 x PT1000 or PT100 inputs*	
*Two variants of hardware. One that supports PT1000, one that supports PT100			
Environmental			
IP rating	IP6k9k	Ambient Temperature	-40°C to +85°C Automatic derating above 50°C
Flow Rate	10 l/min	Coolant temperature	-40°C to +85°C (with 50:50 Water Glycol mix) Automatic derating above 50°C
Safety			
Standards	<ul style="list-style-type: none">IEC60664ISO6469	<ul style="list-style-type: none">UL840	<ul style="list-style-type: none">HV interlock on the I/O connector
Weight and Dimensions			
Dry Weight	6kg	Length (mm)	394
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For further information please contact our team of experts at electrificationsales@turntide.com

TURNTIDE TECHNOLOGIES

Our breakthrough technologies accelerate electrification and sustainable operations for energy-intensive industries

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