

High Voltage DC/DC

The Gen5 range of products utilise a highly flexibility architecture to deliver a unique feature rich set of functions is well matched to satisfy the electrification needs of automotive, commercial and construction markets. The range of High Voltage DC/DC converters is specifically aimed at vehicle OEM's and system integrators to offer them a compact, lightweight, rugged and cost effective class leading suite of solutions.

The Sevcon range of DC/DC Converters are suitable for a wide range of electric powered vehicles and are specifically designed to be fitted on-board the vehicle and connected permanently to the battery. This range of High Voltage DC/DC products are designed to satisfy the current trend to use higher battery voltages between 220VDC to 800VDC which are converted to lower voltages to power ancillary loads. Options include nominal 12VDC or 24VDC or 48VDC output variants, with exact output voltage set using a CAN communications command.

The products can satisfy a range of power requirements from 1.2kW to 7.2kW (when paralleled only). The High Voltage DC/DC range is designed to offer full performance across the temperature range of -40°C to +45°C (air cooled) and +65°C (liquid cooled). It has many protection features such as input UVLO, input OVLO, input reverse polarity, current limit, output short circuit and over temperature.

The CAN communications features allow the units to be enabled and disabled with communications messages.



Key Parametres

- Wide input range 220VDC to 800VDC
- 1.2kW Output power up to 7.2kW (when paralleled only)
- High Efficiency >92% from 50% to 100% load
- Parallel connection of multiple units for increased power or redundancy
- Forced current sharing
- Environmental: -40°C to +45°C (air cooled) to +65°C (liquid cooled) operation, IP67

Intelligent I/O

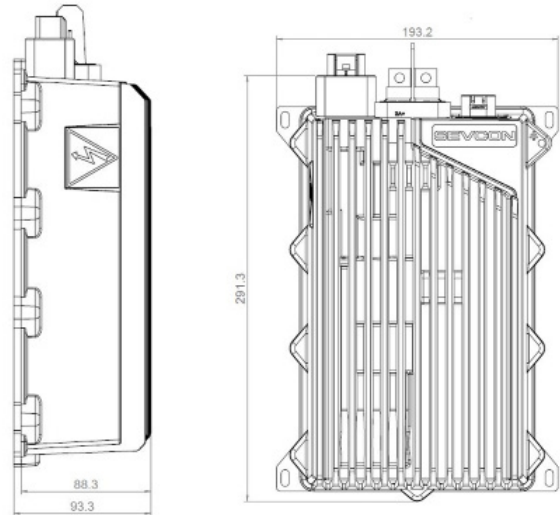
If no CAN is used, the DC/DC converter can be enabled by an external relay or switch, Output Power OK signal.

Smart Communications

The unit can be enable, disabled and monitored using CAN communication messages if required, the functionality provided includes:

- Output enable / disable function
- Output voltage setting
- Output current setting and limiting
- Monitoring of status and operational values

Air Cooled



Liquid Cooled

