



SEVCON[®]

Electrification Partner

Trusted by the world's leading companies for electrification solutions

With over 50 years of experience and development centre's in Gateshead UK, Oxford UK, Kitchener Canada and Lugo Italy, Sevcon offers unsurpassed experience and maturity in a rapidly growing and evolving electrification market.

Electric Drive Engineering are the official distributors of Sevcon products in Australia and New Zealand

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Low Voltage Motor Controllers

High Voltage Motor Controllers

DC DC Converters

Accessories

LOW VOLTAGE MOTOR CONTROLLERS

The family of low voltage controllers cover the voltage ranges from 14V to 150V DC. With their high reliability and compact dimensions our DC motor controllers are used on both pump and traction applications in some of the worlds leading material handling vehicles.

Gen 4 Series – Low Voltage

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The Gen4 range represents a well established design in compact AC controllers. These reliable controllers are intended for on-road and off-road electric vehicles and feature the smallest size in the industry for their power capacity.

Thanks to the high efficiency it is possible to integrate these controllers into very tight spaces without sacrificing performance. The design has been optimised for the lowest possible installed cost while maintaining superior reliability in the most demanding applications.

Gen 4 - Size 2

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The Gen 4 Size 2 comes in three versions; 24V, 48V, and 80V.

- CANopen
- IP66
- 8 Digital & 3 Analog Inputs, 3 Outputs
- EV, dual motor, & pump applications
- Proven supply chain

Motor Type: AC Induction, PMAC

Nominal Voltage: 24V, 48V, 80V

Max Voltage: 52V, 69V, 120V

Nominal Current: 120A, 110A, 75A

Max Current: 360A, 330A, 215A

Weight: 2.0kg

Dimensions: 187 x 151 x 71mm

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Gen 4 – Size 4

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The Gen 4 Size 4 comes in four versions; 24V, 48V, 80V, and 120V.

- CANopen
- IP66
- 8 Digital & 3 Analog Inputs, 3 Outputs
- EV, dual motor, & pump applications

- Proven supply chain

Motor Type: AC Induction, PMAC

Nominal Voltage: 24V, 48V, 80V, 120V

Max Voltage: 52V, 69V, 120V, 150V

Nominal Current: 180A, 180A, 140A, 120A

Max Current: 540A, 540A, 420A, 360A

Weight: 2.6kg

Dimensions: 227 x 168 x 78mm

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Gen 4 – Size 6

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The Gen 4 Size 6 comes in three versions; 24V, 48V, 80V.

- CANopen
- IP66
- 8 Digital & 3 Analog Inputs, 3 Outputs
- EV, dual motor, & pump applications

- Proven supply chain

Motor Type: AC Induction, PMAC

Nominal Voltage: 24V, 48V, 80V

Max Voltage: 52V, 69V, 120V

Nominal Current: 260A, 260A, 220A

Max Current: 780A, 780A, 660A

Weight: 4.65kg

Dimensions: 305 x 170 x 78mm

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Dragon 8

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The Dragon8 sets a new standard in AC motor controller performance and reliability. It is compatible with a wide range of motors – Asynchronous AC Induction and Synchronous Permanent Magnet AC (PMAC) or Brushless DC (BLDC).

Dragon8 has electrical isolation between high power battery/motor wiring and the lower voltage control signals and CANBus. This allows the IO to reference the 12 V (or 24 V) battery and vehicle chassis return path.

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The Dragon8 has superior power density compared with the Sevcon Gen 4 Size 2.

- J1939
- IP66
- 6 Digital & 4 Analog Inputs, 2 Outputs
- EV, dual motor, & pump applications

- Proven supply chain

Motor Type: AC Induction, PMAC

Nominal Voltage: 96V

Max Voltage: 139V

Nominal Current: 110A

Max Current: 400A

Weight: 2.0kg

Dimensions: 227 x 138 x 75mm

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HIGH VOLTAGE MOTOR CONTROLLERS

Sevcon's family of high voltage controllers cover the voltage ranges 120V to over 800V
DC and power levels from 10kW to 300kW.

Gen 4 Series – High Voltage

The Gen4 range represents a well established design in compact AC controllers.
These reliable controllers are intended for on-road and off-road electric vehicles and

feature the smallest size in the industry for their power capacity.

Thanks to the high efficiency it is possible to integrate these controllers into very tight spaces without sacrificing performance. The design has been optimised for the lowest possible installed cost while maintaining superior reliability in the most demanding applications.

Gen 4 - Size 8



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A compact, rugged and cost effective design, the Gen4 Size 8 is well suited for EV OEMs, EV conversions and EV drive train system integrators. Its high voltage range, up to 400VDC, is well matched to the needs of the automotive and commercial transport markets. The same hardware platform handles both AC Induction and Permanent Magnet AC motor technologies.

Motor Type: AC Induction, PMAC

Nominal Voltage: 128-400V

Nominal Current: 200A rms

Weight: 8.5kg

Dimensions: 322 x 322 x 107mm

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Gen 4 - Size 10

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The Gen4 S10 is an AC motor controller designed to operate up to 800VDC providing a peak of 300kW power. It is well matched to the needs of the on-road and off-road Electric (EV) and Hybrid Electric Vehicles (HEV) automotive, agricultural and commercial transport markets.

Motor Type: AC Induction, PMAC

Nominal Voltage: 800V

Nominal Current: 200A**Weight:** 10.9kg**Dimensions:** 511 x 266 x 85mm[Proceed to Store](#)[Enquire](#)

Gen 5 Series - High Voltage

The Gen5 range of products is well-matched to satisfy automotive, commercial and construction markets' electrification needs. The Gen5 Size 9 is specifically aimed at vehicle OEMs and system integrators to offer them a compact, lightweight, robust and cost-effective, class-leading suite of solutions covering traction, hybridisation, power generation and sub-system electrification.

Gen 5 - Size 9

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- Liquid Cooled
- IP6k9k
- Advanced Field Oriented Control
- CANopen & J1939
- Highly Configurable
- Resolver, UVW, Sin/Cos, AB compatible

Motor Type: AC Induction, PMAC**Nominal Voltage:** Up to 450V DC**Nominal Current:** 200A RMS (Continuous), 450A RMS (1min)**Weight:** 6.8kg**Dimensions:** 394 x 285 x 90mm AUD USD EUR[Proceed to Store](#)[Enquire](#)

High Voltage Low Power

The HVLP AC Motor Controllers utilize Sevcon's latest technology and work with Permanent Magnet and Induction motors. This new range of inverters has a continuous power rating up to 20kW at 700VDC. CAN J1939 communication protocol is standard, with ISOBUS or CANOpen if required.

High Voltage Low Power (HVLP)

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Sevcon's High Voltage Low Power (HVLP) inverters provide the ideal solution to driving smaller auxillary motors from a high voltage battery. Air cooled & liquid cooled variants are available in an alloy housing rated to IP6K9K.

Motor Type: AC Induction, PMAC

Nominal Voltage: 200-800V

Nominal Current: 19A, 33A

Weight: 3.7kg, 2.3kg

Dimensions: 255 x 223 x 88(95) mm

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Low Voltage Motor Controllers

High Voltage Motor Controllers

DC DC Converters

Accessories

DC DC CONVERTERS

The Sevcon DC/DC converters are suitable for all electric powered vehicles and are designed to be fitted on-board the vehicle and to be connected permanently to the battery. These fully encapsulated converters deliver a stable, isolated high power, low voltage DC supply for accessories such as lights, horns and wipers.



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DC/DC Converter

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- Silent, high frequency operation
- Reverse polarity & inrush protection
- Overload & short circuit protection
- Fully isolated
- IP67
- Parallel operation possible

Input Voltage: 24V, 36V, 48V, 72V, 80V, 96V

Output Voltage: 12V, 13.5V, 14.5V, 24V

Power: 300W, 500W

Weight: 1.0kg

Dimensions: 140 x 70 x 50mm

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Gen 5 - High Voltage DC/DC



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- High efficiency >92% from 50% to 100% load

- Parallel operation possible
- CAN compatible
- Forced current sharing

Input Voltage: 220V – 800V DC

Output Voltage: 12V

Power: 1.2kW

Dimensions: 291 x 193 x 93mm

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ACCESSORIES

Clearview Digital Display (Discontinued by manufacturer)



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Clearview is a configurable CANopen colour display which can be set up to show a variety of information sent from the Sevcon motor controllers it is connected to. It can also be used to configure parameters on the controllers.

Dimensions: 291 x 193 x 93mm

Weight: 0.3kg

IP Rating: IP54

- Configurable main screen
- Single & multi-node support

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Address

10/52 Kent St, Cannington, Western Australia 6107

(by appointment only)

Phone

+61 460 022 089

Email

info@electricdriveengineering.com.au

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