

SEVCON®

Partner with Performance

HVLP-20 Liquid Cooled



HVLP-10 Air Cooled



HVLP

HIGH VOLTAGE LOW POWER MOTOR CONTROLLER

A new range of low power AC motor controllers/inverters designed primarily for ancillary control of pumps and fans on hybrid and electric buses, agricultural implements, tractors and other high voltage vehicles. There are 5 models in the range, which cover both liquid cooled and air cooled designs, along with a double air cooled controller.

A compact, rugged and cost effective design, Sevcon's HVLP Inverter range is well suited for OEMs, hybrid/electric bus & truck conversions, Agricultural OEMs and EV system integrators.

The high voltage range is fully operational from 200V up to 800VDC, matched to the needs of the automotive/commercial transport markets as well as the AEF led Agricultural Electrification. The same hardware platform handles both AC Induction and Permanent Magnet AC synchronous motor technologies.

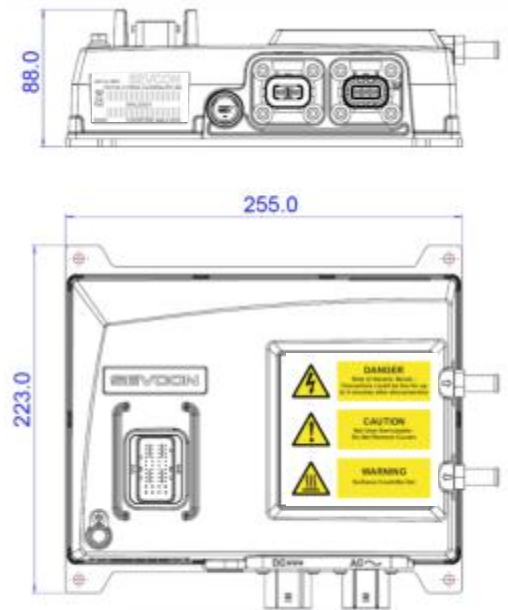
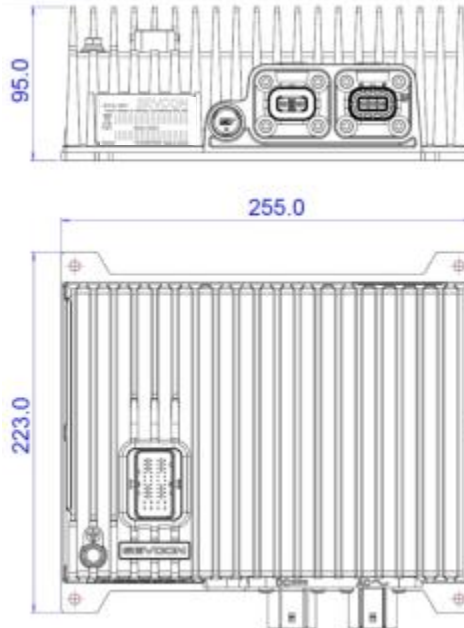
FEATURES

- 200V to 800VDC battery voltage
- Up to 53A peak current (HVLP-20)
- Up to 33A continuous current (HVLP-20)
- Advanced flux vector control
- 12V or 24V nominal supply
- High Voltage Interlock (HVIL)
- CAN J1939 compatible
- AC Permanent Magnet synchronous motor
- AC Induction motor
- Resolver and Sin/Cos position sensors
- Induction motor control without position sensor
- Robust all alloy housing IP6K9K - IP67

HVLP

All dimensions in mm.
AIR COOLED HVLP-10

LIQUID COOLED HVLP-20



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Sevcon Ltd Kingsway South
Gateshead NE11 0QA England
T +44 (0)191 497 9000
sales.uk@sevcon.com

Sevcon Inc 155 Northboro Road
Southborough MA01772 USA
T +1 (508) 281 5500
sales.us@sevcon.com

Sevcon SAS Parc d'Activité
du Vert Galant Rue Saint Simon
St Ouen l'Aumône
95041 Cergy Pontoise Cedex France
T +33 (0)1 34 30 35 00
sales.fr@sevcon.com

Sevcon Japan, East Japan Office
Zip code: 384-2205
720-5 Kasuga, Saku, Nagano, Japan
T +81 267 77 7343
jp.info@sevcon.com

Sevcon Asia Ltd
Room No.202 Dong-Ah Heights Bldg
449-1 Sang-Dong Wonmi-Gu
Bucheon City Gyeonggi-Do
420-816 Korea
T +82 32 215 5070
sales.kr@sevcon.com

Sevcon Germany
Hintere Str.32
73266 Bissingen an der Teck
Germany
T: +49 (0)170 9980294
E: de.info@sevcon.com

www.sevcon.com

KEY PARAMETERS

HVLP-20 (liquid cooled)

- Operating voltage range at full current 200V to 800V
- Output motor phase current:
 - 53A rms (1 min)
 - 33A rms (Continuous)
- Water/Glycol coolant
 - Full operation up to 70°C inlet temperature and at 6/l min flow
- Weight: Liquid Cooled = 2.3kg (dry)

HVLP-10 (air cooled)

- Operating voltage range at full current 200V to 800V
- Output motor phase current:
 - 24A rms (1 min)
 - 19A rms (Continuous)
- Ambient -40°C up to +45°C full operation
- Weight: Air Cooled = 3.7kg

Common Parameters

- Safety:
 - HVIL (High Voltage Interlock H/W & S/W)
 - Designed to meet the electrical isolation of electrically propelled vehicles ISO 6469
- Environmental:
 - IP6k9k and IP67 protection
- 12V or 24V nominal supply

INTEGRATED I/O

HVLP includes a fully-integrated set of inputs and outputs (I/O) designed to handle a wide range of requirements. This reduces the need for additional external I/O modules or vehicle controllers and connectors.

- All I/O protected to 40V
- 4 analogue inputs 0-10V
- 4 digital inputs
- 2 power supplies 5-10V (100mA & 200mA)
- 2 digital outputs