

DC-DC Converter

Technical Data Sheet - Read carefully before installation and connection of converter



| Product Reference | 622/11071 | 36/48v; 12v, 180w (Compact potted with I&O fuses) |
|-------------------|-------------|--|
| | 622/11072 | 36/48v; 12v, 180w (Compact potted) |
| | 622/11073 | 36/48v; 24v, 180w (Compact potted with I&O fuses) |
| | 622/11074 | 36/48v; 24v, 180w (Compact potted) |
| | 622/11075 | 72/80v; 12v, 180w (Compact potted with I&O fuses) |
| | 622/11076 | 72/80v; 12v, 180w (Compact potted) |
| | 622/11077 | 72/80v; 24v, 180w (Compact potted with I&O fuses) |
| | 622/11078 | 72/80v; 24v, 180w (Compact potted) |
| | 622/11079 | 24v; 12v, 180w (Compact potted) |
| | 622/11083 | 24/36v; 24v, 200w (Compact potted) |
| | 622/11084 | 36/48v; 12v, 300w (Compact potted with fuse) |
| | 622/11085 | 36/48v; 24v, 300w (Compact potted with fuse) |
| | 622/11086 | 72/80v; 12v, 300w (Compact potted with fuse) |
| | 622/11087 | 72/80v; 24v, 300w (Compact potted with fuse) |
| | 622/11089 | 72/80v; 48v, 300w (Compact potted with fuse) |
| | 622/11091 | 24v; 12v, 200w (Compact potted) |
| | 622/11095 | 96v; 12v, 300w (Compact potted with fuse) |
| | 622/11096 | 96v; 24v, 300w (Compact potted with fuse) |
| | For other m | odels on other voltage variants, please contact SEVCON |







The Sevcon DC-DC converter is suitable for all electric powered vehicles, and is designed to be fitted on-board the vehicle and connected permanently to the battery. It is designed to provide a stable isolated power supply for ancillary equipment. It is a very compact and powerful design and is designed to operate reliably in industrial and commercial environments.



Precautions for Installation and use

The converter can be installed and will operate in any orientation. The manufacturer of the electric vehicle is responsible for ensuring the converter is installed in such a way as to meet all applicable safety standards and prevent damage by or risk to users.

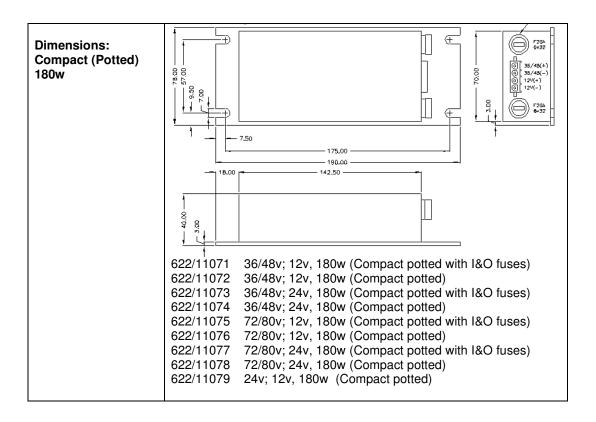
The input supply range is a pre-set single voltage range.

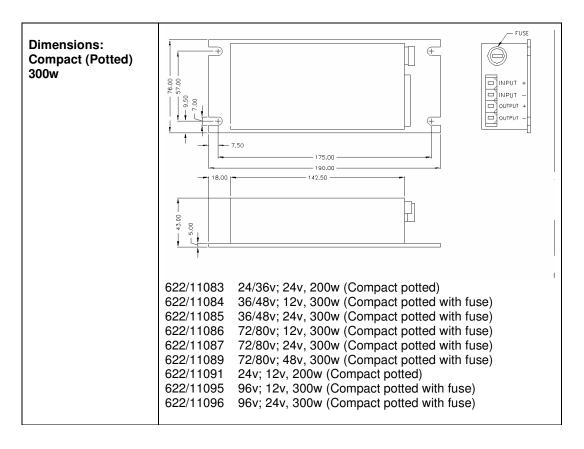
The integrity of all connections and cables must be checked before use.

Do not allow oils, chemicals or other similar contaminants to come into contact with the converter.

Care must be taken to ensure the converter is mounted in such a way as to provide adequate thermal dissipation. The maximum surface temperature of the casing is 40 °C above the ambient operating temperature.

| | Rated supply voltage ranges : | |
|---------------------|--|--|
| Electrical | 19.2V – 45V (nominal 24/36V) | |
| specifications of | 28.8V – 60V (nominal 36/48V) | |
| Converter | 57.6V - 100V (nominal 72/80V) | |
| | | |
| | Output voltages : | |
| | 12V nominal corresponds to 13V real at half load exept on specifi | |
| | models (622/11071, 12V real). | |
| | 24V nominal corresponds to 26V real at half load exept on specific | |
| | models. | |
| | Peak to peak voltage ripple: <5%V | |
| | Mean output voltage regulation : <2% | |
| | Converter Switching Frequency : 62kHz | |
| | | |
| | Operating Temperature : -30°C to +55°C | |
| General Operating | Storage Temperature : -40 °C to +70 °C | |
| Conditions | Relative Humidity: 90% | |
| | Weight: 1.2kg | |
| | | |
| Floridad October | Input and output electrically isolated | |
| Electrical Safety | | |
| | For converters with fuses fitted: | |
| | Input fuse : 15 / 20A * | |
| | Output fuse: 15 / 20A * | |
| | * depending on voltage range and power output | |
| | Dielectric isolation : 1500 Vac | |
| | Output is shut down if input voltage is less than 65% of nominal | |
| | range. | |
| | T=- | |
| | The converter is protected internally from over temperature and | |
| Thermal Safety | regulates itself to maintain function in the safe operating region of the | |
| | components. In the event of overheating the converter will gradually | |
| | cutback the output voltage down to a min. 75% of the nominal voltage. | |
| | Della consideration of the constant of the con | |
| Winter a Demoiner | Battery supply connections: | |
| Wiring Requirements | +Terminal connection : 2.5mm² red cable | |
| | -Terminal connection : 2.5mm² black cable | |
| | Output connections: | |
| | +Output connections. +Output connection: 2.5mm² red cable | |
| | -Output connection: 2.5mm² red cable | |
| | -Output connection : 2.5min- black cable | |





| | Emission standard : EN 50081-1 and 50081-2 |
|-----------|--|
| Standards | Immunity standard : EN 50082-1 and 50082-2 |
| | Safety standards : EN 60335 class I |
| | EN 1175-1 |
| | EN 60950 |
| | Product standard : EN 12895 |
| | The standards noted above apply exclusively to the pro- |
| | account is taken of integration into spethor system, as Course |

The standards noted above apply exclusively to the product. No account is taken of integration into another system, as Sevcon has no control over the system environment. It is the responsibility of the manufacturer to ensure that the complete system conforms to any applicable standards.

This product bulletin is for outline specification only .For specific application data, the full engineering specifications available from Sevcon should be used.

Sevcon is constantly striving to improve its products and reserves the right to alter specifications without notice

Revised 20 June 03