

SEVCON®

Partner with Performance



300W DC/DC

DC/DC CONVERTERS

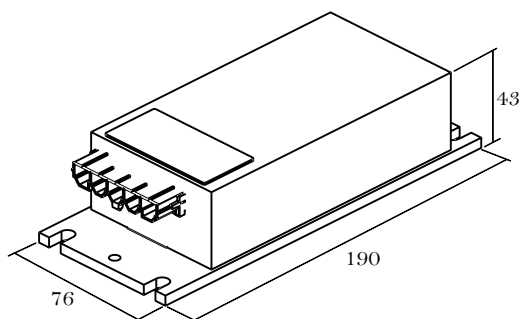
The Sevcon DC/DC Converters are suitable for all electric powered vehicles and are designed to be fitted on-board the vehicle and connected permanently to the battery. These fully encapsulated converters deliver a stable isolated high power, low voltage DC supply for accessories such as lights, horns,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

FEATURES

- High Frequency: silent operation
- Output power: 300W
- Protection from short circuit overload and reverse polarity
- Output on/off enable on some models
- Fully isolated
- IP67 protection
- Parallel connection of multiple units with diode
- Integrated fuse holder on some models
- UL approved parts available



300W DC/DC



INPUT AND OUTPUT VOLTAGES

The DC/DC is available in various part numbers, each offering a different combination of input and output voltage

Typical nominal input voltages: 36V, 48V, 72V, 80V, 96V

Typical regulated output voltage options: 12V, 13.5V, 14.5V

** contact your local Sevcon representative with your input and voltage requirements for further advice and recommended part number*

OUTPUT POWER RATING & INSTALLATION

The DC/DC unit has a power rating of 300W, although this will be influenced by installation and ambient temperature

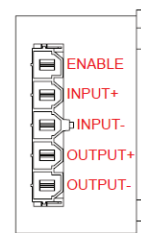
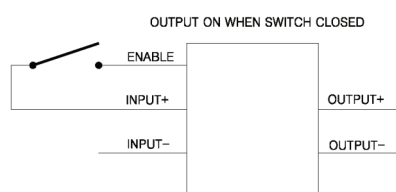
Thermal performance of the DC/DC converter is highly dependent on ambient temperature and heatsinking, it is recommended that the converter is mounted to a suitable heatsink using thermal interface material or grease.

For reliable operation the DC/DC converter case temperature must not exceed 80 deg when tested in the end application under worst case environmental conditions

It is recommended to fit a suitably rated fuse in series with the output+ line to help ensure that required output current is not exceeded.

OUTPUT ENABLE

Available on selected models with a 5 pin connector is the Output Enable function. This feature allows users to turn on/off the output voltage of the DC/DC unit. In order to switch ON the output voltage, connect the ENABLE pin to INPUT+ of the DC/DC. Open circuit connection of the ENABLE pin will turn OFF the DC/DC output voltage.



**ENABLE voltage must be referenced to the system supply INPUT+ voltage level for unit to function correctly.*

ISOLATED OUTPUT

Safer than direct battery connection, this converter provides an electrically isolated output for ancillary equipment.

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