



Model G80-series

AC Motor Controllers 80V, 350 and 550A

Model G80-series represent the latest design standards for compact and reliable AC Controllers. It features the smallest footprint in the industry for its power capability. The high efficiency of this controller makes it possible to integrate it into very tight spaces without sacrificing performance. The design has been optimized for lowest possible installed cost while maintaining superior reliability in the most demanding applications.

Fully CANopen Compliant

These controllers come standard with CANopen. This allows easy interconnection of controllers and other devices such as displays and driver controls. CANopen also allows the user to wire the vehicle to best suit vehicle layout since inputs such as the throttle can be connected to any of the controllers on the vehicle and the demand value will be passed over the CAN-open bus to the relevant motor controller.

Additional Features

- Designed for highest reliability
- High environmental protection (IP66)
- Integrated logic circuit
- Advanced flux vector control
- Sensorless control for select applications
- Autocheck - system diagnostics
- Hardware and software failsafe/watchdog operation
- Integrated fuse holder

Choice of Motor Technologies

The Gen4 controllers are capable of controlling AC Asynchronous motors as well as Permanent Magnet Synchronous motors. This feature allows users to select optimal motor solutions for any application. Both UVW and encoder AB inputs are provided for maximum flexibility.



Gen4™

Self-characterization

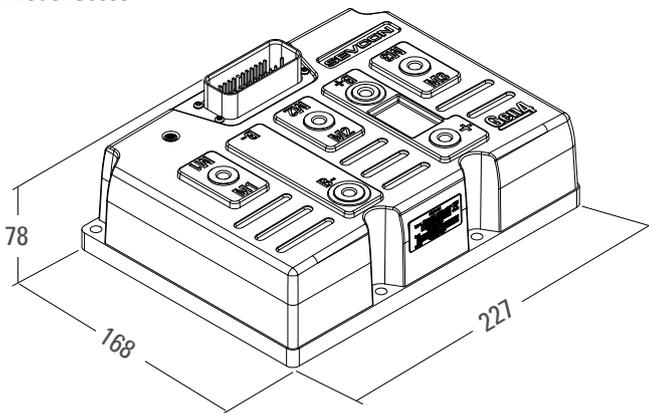
Sevcon's unique Self Characterization capability enables G80-series controllers to automatically define and optimize parameters for the AC motor. This feature provides quick set-up and allows customers to select motor suppliers of their choice without worrying about compatibility between controller and motor.

Integrated I/O

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

Overall Dimensions

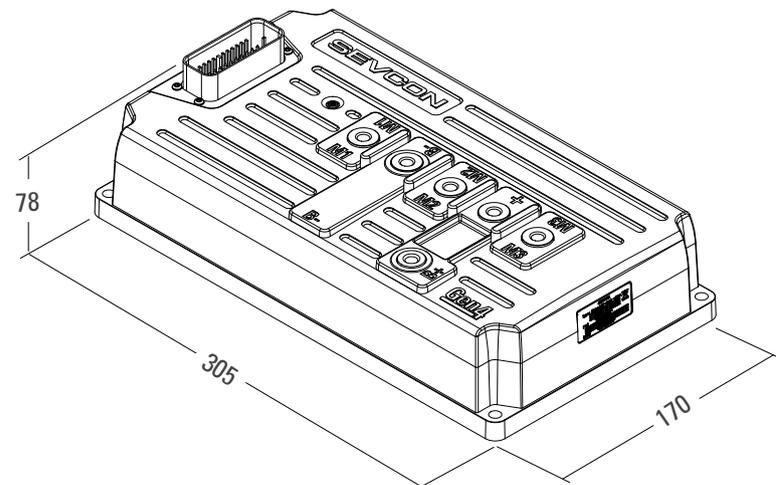
Model G8035



General Specifications

| Model | G8035 | G8055 |
|----------------------------------|------------------------|-------|
| Nominal battery voltage | 72-80VDC | |
| Peak current (2 min) | 350A | 550A |
| Boost current (10 sec) | 420A | 660A |
| Digital inputs | 8 | |
| Analog inputs | 2 | |
| Motor temperature sensor input | Yes | |
| Contactors/solenoid outputs (2A) | 3 | |
| Motor UVW inputs | Yes | |
| Motor encoder (AB) inputs | Yes | |
| Encoder supply output | 5V or 10V (max. 100mA) | |
| Supported CANopen profiles | DS301, DS401, DS402 | |
| Ambient operating temperature | -40°C to +85°C | |
| Protection class | IP66 | |

Model G8055



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