

SIGMALITE MOTOR CONTROLLERS

SigmaLITE is the latest innovation from DMC built on advanced AC-PMS-IPM motor technology for exceptional performance and versatility. It delivers a compact, robust solution for a wide range of applications from single or dual-motor traction to advanced pump control.

With support for CANopen DS402, J1939, or fully customized communication protocols, SigmaLITE integrates seamlessly into your system. An optional isolated CAN interface ensures maximum reliability.

Firmware can be updated directly via CAN or configurator, and adjustments are simple with a handheld CANopen calibrator.

Engineered for demanding environments, SigmaLITE features a rugged 23-way AMP Seal connector, IP65 protection rating, and compliance with EN 13849 Safety Category II PLc/PLd. Inside, high-efficiency IMS power boards and MOSFET technology deliver outstanding performance and efficiency.

For both IPM and PMS motors, SigmaLITE offers advanced functions such as full auto-tuning, sensorless operation, and automated motor sensor setup. For unique projects, DMC also provides custom hardware and software development to meet your exact requirements.

Voltage	Current 1min/1h	Release	Size (mm)
24/48V	250/125Arms	2024	144 x 106 x 55
24/48V	120/60Arms	tbd	144 x 106 x 55
24/48V	80/40Arms	tbd	144 x 106 x 55
60/96V	120/60Arms	2025	144 x 106 x 55
24/96V	Powersteer	tbd	144 x 106 x 55
Preliminary information			



Key Features

- **AC-PMS-IPM Motor Technology** with full auto-tuning
- **Automated motor sensor setup**
- **Sensorless operation** for AC, PMS, and IPM motors
- **CANopen & J1939 communication**
- **Live data and configuration via CAN**
- **Nominal voltage range: 24-96V**
- **Operating temperature: -30 °C to +85 °C**

The Future Generation of Motor Control!



Lite Display



Advanced Display



Calibrator



Configurator

Recommended Accessories