

Ursa BMS

SEDEMAC has been developing a suite of products for OEMs participating in the EV story. SEDEMAC provides complete control and power electronics solution-set for electric vehicle (EV) and hybrid electric vehicle (HEV) systems. The portfolio includes motor controllers, battery management systems, and DC/DC converters.

The battery management segment is catered by **Ursa BMS**, intended for 48V lithium ion batteries. It has modern State of Charge (SOC) estimators. Ursa supports up to 14 cells in series. It monitors cell voltages, battery pack temperature, and battery pack current to enable passive balancing, battery protection and battery state estimation.

Ursa BMS



Highlights

- Modern state of charge estimators based on Kalman filters in BMS, provide a significant improvement in SOC estimation as compared to traditional algorithms such as coulomb counting or terminal voltage-based state estimation



Specifications

- Designed for 48V lithium battery packs
- Supports up to 14 cells in series
- Kalman filter based State of Charge (SOC) estimation
- Passive balancing with 300-ohm shunt
- Provides capacity and internal resistance estimation

About Company

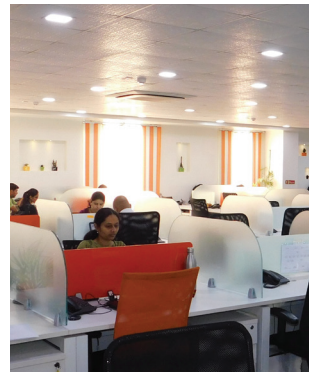
SEDEMAC Mechatronics is a mechatronic products company engaged in the business control solutions for automotive and off-highway powertrains. The company manufactures a wide range of control products like a variety of AMF genset controllers, electronic governors and variable speed controls for diesel gensets / engines. SEDEMAC's portfolio for gasoline engines / powertrains includes products like Smart Ignition, Integrated Starter Generator (ISG) ECU, Automated Manual Transmissions (AMT) ECU, Electronic Fuel Injection (EFI) ECU and so on.

A group of researchers founded SEDEMAC in 2007 in Mumbai, India. What started as a small lab-based enterprise has now grown into a rapidly growing company that supplies / licenses unique control products to the leading OEMs in India.

Each of the SEDEMAC's products goes through complete cycle of need of identification, development of relevant technology, design of practical products around developed technology, validation of products coordinating with key potential customers, organization of supply chain for series production, delivery to customers and effective after sales product support.

SEDEMAC is #1 in genset market control in India today and is the preferred choice of leading OEMs for unique control products.

Our Facilities



SEDEMAC MECHATRONICS PVT. LTD.

C 9-10, C Block, MIDC Bhosari

Pune 411026, India

Phone: +91 20 67313500