

EV SOLUTIONS



MAKING
E-MOBILITY
**SAFER AND
SMARTER**

BATTERY MANAGEMENT SYSTEM



PERFORM@CHANGE



THE ADVANCED BATTERY MANAGEMENT SYSTEM

A battery management system is crucial for the safety of electric vehicles and commuters. The battery management system from Varroc is designed to ensure peak efficiency and stability of the battery. The system is equipped with data analytics to help troubleshoot and optimise battery performance.



Accurate SOC (State of Charge) and SOH (State of Health) Calculation



Onboard Voltage & Thermal Sensors



Onboard Protection Devices



Data Analytics



Customisable Design

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Features

Onboard monitoring and protection for:

- Cell balancing
- Pre-charge
- Overvoltage & undervoltage
- Overcurrent & overtemperature

Communication with other devices through CAN

SOC (State of Charge) estimation error <1%

Provision for battery pack temperature measurement: Up to 6 NTC temperature sensors

Technical Specifications

- ✓ Compatible Battery Pack: 48V, 3 kWh
- ✓ Cell Chemistry: NMC (14 cells in series)
- ✓ Operating Voltage Range: 24V to 65V
- ✓ Nominal operating voltage: 48V DC
- ✓ Cell voltage measurement accuracy: 34.2mV
- ✓ Current measurement accuracy: 1%
- ✓ Cell balancing current: 200mA/cell
- ✓ Sleep Current: <500uA
- ✓ Temperature measurement accuracy: $\pm 2.53^{\circ}\text{C}$
- ✓ Operating Temperature: -30°C to 125°C



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For more details, please connect with our Varroc representative at varroc.info@varroc.com