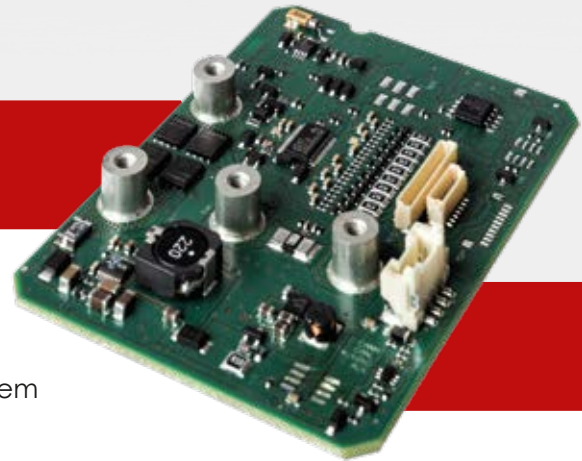




## piBMS



### Features

- Intelligent CAN / EnergyBus Battery Management System for E-Bikes / Pedelecs / LEVs / rental systems
- BMS 9-15S / 25A
- Supports wireless M2M interfaces
- Motion sensor for battery crash detection
- Life cycle recording
- Battery types: Li-Ion/ Phosphate 9-15 cells, individually customizable



### Overview

Due to the almost free configurability of the security and cell parameters, this BMS is compatible with a variety of battery configurations and enables the integration of security, reliability and networked intelligence into one battery.

The compact design is optimized for installation in a down tube battery. The BMS communicates via the CAN interfaces and uses for the exchange of information among others the EnergyBus protocol. The optional integration of a wireless interface, such as Bluetooth or GSM, is supported.

piBMS monitors the battery values and can prevent further use of the battery pack if limit values are exceeded. This applies to short circuit, overcurrent, over / under voltage, over / under temperature, plausibility, over-charging and over-discharging. An integrated motion sensor detects strong vibration during a battery spurt and records this data for complete operation verification.

Three redundant safety levels ensure maximum safety of the battery system.

### Details

#### Basics

Cell number	9-15
Battery voltage	max. 58,8V
Charge / discharge current	max. 25A
Auxiliary voltage	12V / max. 2A, current limited
Security levels	3
Monitored battery values (configurable)	Short circuit, overcurrent, over / under voltage, Over / under temperature, plausibility, overcharge, over-discharge

#### Interfaces

CAN	Isolated 3.3V CAN transceiver Supports EnergyBus/CANOpen 454
M2M	Configurable (e.g. Bluetooth, GSM)
Other interfaces	LEDs, button, motion sensor

#### Other properties

Cooling	passive
Dimensions	e.g. 80mm x 60mm at 10S
Data storage	1Mbit Flash
Loading device	Unloading, loading