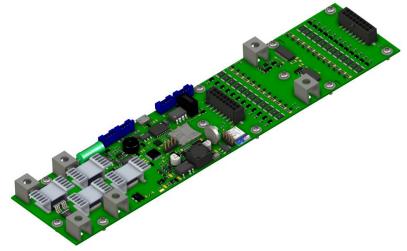
LVBMSv2.0

Low-voltage battery management system for industrial applications



Product information:

LV BMS is a low-voltage battery management system. It cooperates with lithium-ion batteries of every kind, even ones with stack voltage up to 120V and capacity to 2000 Ah. Based on measured parameters LV BMS calculates state of charge (SOC) and state of health (SOH) of the battery. The device is able to safely control opening and closing of transistor switches, which enables non-hazardous battery charging and discharging. In addition while charging process our product is responsible for balancing voltages of individual cells.

Functionality:

- For every kind of lithium-ion cell
- Standby mode
- Voltage measurement sampling frequency 10Hz
- Bluetooth and CAN connection
- 2 GPIO inputs
- Mobile app for remote battery parameters monitoring

Technical specification:

Parameter	Description	Value
Battery voltage	Operating battery voltage range	8 – 120 V
Cells voltage	Cells voltage measurement range	0 – 5 V
measurement	Cells voltage measurement accuracy	< ± 1,5 mV
Current	Type of sensor	Hall Sensor
measurement	Measurement accuracy	0 – 140 A
	Current measurement accuracy	± 1A
Temperature	Type of temperature sensor	NTC, 100 kΩ, β = 3900
measurement	Measurement range	-40 ~ +85°C
	Temperature measurement accuracy	± 1 °C
Battery capacity	Maximum capacity of the battery	Max. 2000 Ah
Cell capacity	Maximum capacity of one cell	Max. 2000 Ah
Number of cell	Maximum number of cells connected in series	4 – 24
Discharge current	Maximum continuous current – without the radiator	30 A
	Maximum temporary current – without the radiator	80 A (10 s)
	Maximum continuous current – with the radiator	60 A
	Maximum temporary current – with the radiator	140 A (10 s)

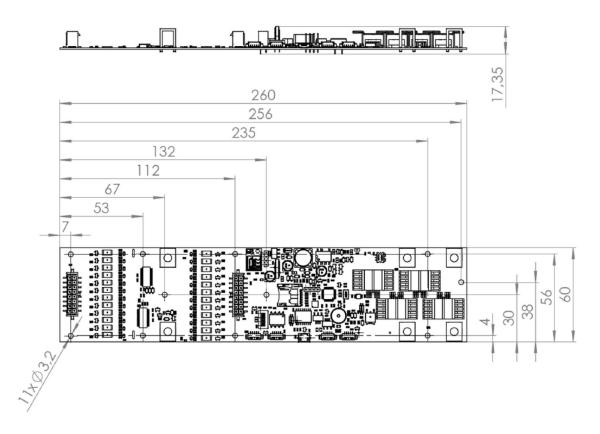
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BATTERY MANAGEMENT SYSTEM - PRODUCT CARD



30 A
80 A (10 s)
60 A
140 A (10 s)
200 mA
118 µA
2
100 mA
5 V
n/a
n x 96 mm x 22 mm
n x 60 mm x 17 mm
dard/Extended
250/ 500/ 1000
kbit/s
200 mA 118 μA 2 100 mA 5 V n/a n x 96 mm x 22 r n x 60 mm x 17 r dard/ Extended 250/ 500/ 100



* the manufacturer reserves the right to make changes to the parameters and appearance of the product.