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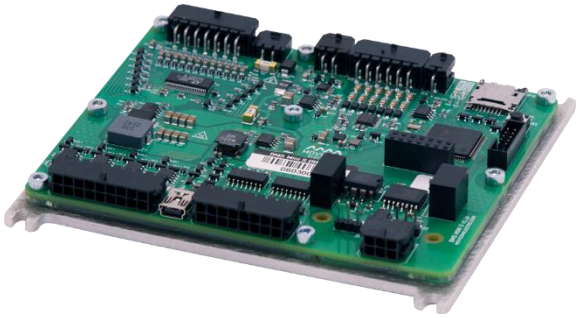
BMS Mini S

Centralized BMS for 12/24/36V batteries

Mini S is a miniature full-featured centralized BMS for high-capacity lithium-ion batteries. It has many communication interfaces, an ability to collect information during the entire battery lifetime and an integrated DC/DC converter.



Specifications

Parameter	Value
Battery voltage, V	10* to 52
Current consumption @36 V, mA (maximum):	
work (no load)	30
standby	0.3
Number of cells	4 to 12
Cell balancing type	Passive
Cell balancing current, mA, @ 4.2 V	220
Cell voltage measurement error, V	0.003
Cell temperature measurement error, °C	2
Output voltage of the internal DC/DC converter, V	12 ± 1
Output current of the internal DC/DC converter, A (maximum)	3
Number of MOSFETs (to drive power contactors)	4
MOSFETs output voltage, V (maximum)	100
MOSFETs output current, A (maximum)	5
Number of discrete inputs (dry contact)	4
Number of discrete outputs	4
Discrete outputs voltage, V (typical)	5
Discrete outputs current, mA (maximum)	100
Type of the current sensor	Hall-Effect sensor, bidirectional, (LEM series: HASS, HTFS, DHAB)
Wired interfaces	1xCAN / 1xRS-485 / 1xUSB
Wireless interfaces	Wi-Fi (optional)
Dimensions (length × width × height), mm	125x117x17
Weight, g	210 ± 5
Operating temperature range, °C	-40 to +85

Note * - The minimum voltage for the internal 12V DC/DC converter is 14 Volts.

Overall and mounting dimensions