

BMS battery management system for lithium rechargeable battery pack
Model: BMS 15S1000LP
Electrical Characteristics

No.	Test item		Criterion
1	Type of cells	Type	All rechargeable lithium
		Number of cells	8÷15
		Range voltage for single cell	1,5÷4,5 VDC
		Cells in series	yes -8÷15
		BMS connection in series	yes, max 300 cells
2	Voltage	Range min/max	24÷60 VDC
		Minimum voltage measured	1 mV
3	Current	Low Current consumption for single cell with auxiliary charger	≤50 μA
		Maximal continuous charging current	50 A
		Maximal continuous discharging current	160A
		Minimum measured current	10 mA
4	Balance	Type of Balance	Passive
		Number of balance	three type (A,B,C)
		Minimum balance voltage for single cell	1 mV
		Balance current for single cell	100 mA
5	Over charge Protection	Over charge detection voltage	settable ±1mV
		Over charge release voltage	settable ±1mV
6	Over discharge protection	Over discharge detection voltage	settable ±1mV
		Over discharge release voltage	settable ±1mV
7	Over current protection	Over discharge detection current	settable ±1A
		Detection delay time	settable ±1s
8	Temperature	Battery temperature misure	settable ±1°C
		PCB temperature misure	settable ±1°C
9	Time	Real time clock with back-up battery	yes
		auto powe off	settable ≥1min
10	Communication	Buzzer	yes
		USB	1
		PWM opto isolated	1
		CAN opto isolated	1
		RS485 opto isolated	1
		TX opto isolated	1
		Bluetooth	yes
		Out relay	3
Settable by PC	yes		
12	Software of communication	windows support	yes
13	Communication with smartphone	Application Android	yes
14	Communication with smartphone	Application ios	yes

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Memory internal of the BMS

No.	Test item		Criterion
1	Time	Day last charge	yes
		Data of last charge	yes
		Charge cycles	yes
2	Current	Register of Amper/hours	yes
3	Operation data	Internal register	10 parameters
4	Production data	Internal register	4 parameters
5	Historical log data	Register fifo	64 events
6	Historical day register	Register fifo	400 day

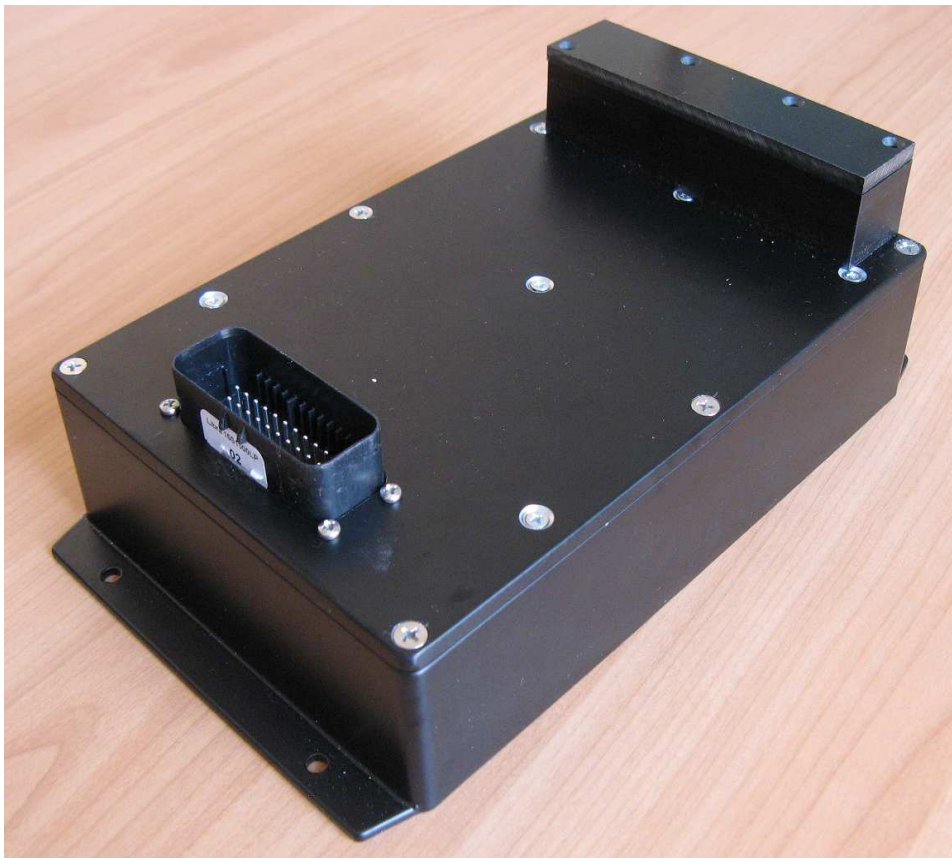
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Electrical and Mechanical Characteristics

No.	Test item		Criterion
1	Type of core	Micro Controller	16 bit
2	Misure current	Analog-to-Digital Converters	16 bit
3	Misure Voltage	Analog-to-Digital Converters	16 bit
4	Power regulator	Switching Regulators	higt efficenze
5	ON/OFF	Double push button	yes
6	Efficiency	At maximun power	99,98%
7	Led	State views	discharge/charge
8	Power consumption	Stand By State	≤50 μA
9	Power consumption	ON State	≤30 mA
10	PCB	Command	FR4
12	Weight	Measure	1 Kg
13	Dimension	Measure	240*150*85mm
14	IP International Protection	Rating	IP65
15	Case	Type	Anodised aluminum
16	Temperature	Operating Temperature Range	-20, +70 °C
		Storage Temperature Range	-20, +85 °C

Photo of the product:



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