



RDC Charger

User manual



Robotina d.o.o.

OIC-Hrpelje 38 Hrpelje
SI-6240 Kozina
Slovenia

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BM-SM

BTMS String master



Order code:	BM-SM-xx (xx-see manual)
Mounting:	On battery or rail, 3M double sided adhesive tape, DIN rail
Dimensions:	60 × 80 × 30 mm

Highlights & Features

- String DC voltage, string charge-discharge current, charge-discharge state and string SOC.
- Voltage, internal resistance, temperature, SOC and SOH of each battery (with BM-CS sensor).
- Two serial ports for optional sensors and touch display.
- Power supply (4W) directly from POE Ethernet.
- Sensor auto-addressing. Insulated sensor bus.
- Advanced measurement algorithm.
- Programmable (EN-61131-3) actions: disconnect string, turn ventilation ON, etc.
- Balancing function: Keep voltage balanced during the floating charge phase of battery pack, keeping the individual battery in the best state, extending backup time and life span of battery pack.
- Supports up to 80 cell sensors, 1000V system

Technical specification

Power supply	Nominal	POE
Power loss	≤ 2W	

Operating temperature	Standard	0 .. 45 °C
	Limit	-10 .. 55 °C
Storage temperature	-40 .. 70 °C	
Working humidity	5 .. 95 %RH, non-condensing	
Dimensions:	Width	60 mm
	Height	80 mm
	Depth	30 mm
Voltage measurements	Range	20 .. 800 VDC
	Accuracy	± 0.5 %
	Resolution	0.01 VDC
Current measurements	Range	-1000 .. 1000 A
	Accuracy	± 2 %
	Resolution	0.01 ADC

LED indicator

Normal operation	Green LED
Alarm	Red LED

Wiring

