

# **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	

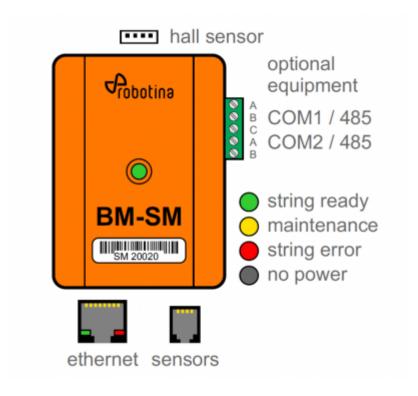
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Operating temperature	Standard	0 45 °C	
	Limit	-10 55 °C	
Storage temperature	-40 70 °C	-40 70 °C	
Working humidity	5 95 %RH, non-c	5 95 %RH, non-condensing	
Dimensions:	Width	60 mm	
	Height	80 mm	
	Depth	30 mm	
Voltage measurements	Range	20 800 VDC	
	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



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