Robotina d.o.o.
OIC Hrpelje 38
SI-6240 Kozina
Slovenia

1. BM-SS

BTMS String master



Order code:	**BM-SS-A1**
Mounting:	DIN rail, 85 mm
Dimensions:	85 × 120 × 39 mm

1.1. Highlights & Features

- Real-time monitoring of string voltage, charge-discharge current, charge-discharge state and string SOC.
- Monitor the voltage, impedance, temperature, SOC and SOH of each battery with BM-CS cell sensors and the specially designed isolated power bus.
- Advanced one-step auto-sensing for individual address. No more manual intervention and setup needed, reducing workload and setup errors.
- Advanced measurement algorithm, no need to discharge large current and measurement can be lossless.
- Balancing function: Keep voltage balanced during the floating charge process of battery pack, keeping the individual battery in the best state, extending backup time and life span of battery pack.
- Communication is based on power-isolated RS485. Secure and stable.
- Quickly locate the alarmed or faulty battery pack in machine room.
- External split-core Hall Sensor, measuring charge-discharge current in different ranges.

- Isolated voltage in communication interface: AC 3750V
- Supports up to 120 batteries (BM-CS)

1.2. Technical specification

Power supply	Nominal	24 VDC
	Range	12 .. 36 VDC
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	85 mm
	Height	105 mm
	Height max	120 mm
	Depth	39 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

1.3. Wiring

