

BM-SM

BTMS String master

add picture

| Order code: | BM-SM-xx |
|-------------|------------------|
| Mounting: | DIN rail, 85 mm |
| Dimensions: | 85 × 120 × 39 mm |

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)

Technical specification

| Power supply | Nominal | 24 VDC | | |
|-----------------------|--------------------------|-----------|--|--|
| | Range | 12 36 VDC | | |
| Power loss | ≤ 2W | ≤ 2W | | |
| Operating temperature | Standard | 0 45 °C | | |
| | Limit | -10 55 °C | | |
| Storage temperature | -40 70 °C | -40 70 °C | | |
| Working humidity | 5 95 %RH, non-condensing | | | |
| Dimensions: | Width | 85 mm | | |
| | Height | 105 mm | | |
| | Height max | 120 mm | | |
| | Depth | 39 mm | | |

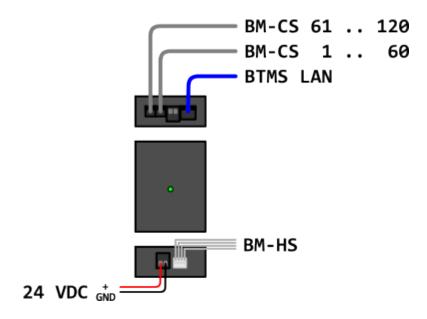
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| Voltage measurements | Range | 20 800 VDC |
|----------------------|------------|--------------|
| | Accuracy | ± 0.5 % |
| | Resolution | 0.01 VDC |
| Current measurements | Range | -1000 1000 A |
| | Accuracy | ± 2 % |
| | Resolution | 0.01 ADC |

LED indicator

| Normal operation | Green LED |
|------------------|-----------|
| Alarm | Red LED |

Wiring



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