

### **BM-SS**

#### **BTMS String master**



| Order code: | BM-SS-A1         |
|-------------|------------------|
| 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

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• Supports up to 120 batteries (BM-CS)

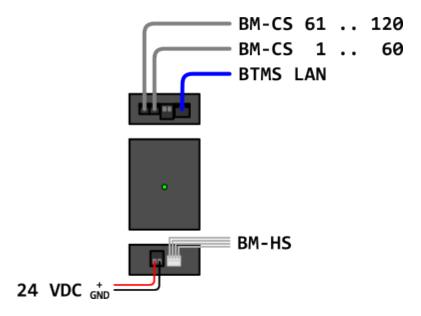
# **Technical specification**

| 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   |

## Wiring



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