



# Solar Battery Management System Lithium Ion Rechargeable Lithium Polymer Battery

## **Basic Information**

Place of Origin: Changsha, China

• Brand Name: HYZZ

• Certification: ISO9001, CE, CB, UN38.3

Packaging Details: foam, wooden box / foam, carton, tray

Delivery Time: 22 daysPayment Terms: L/C, T/T

Supply Ability: 10,000 PCS per month



# **Product Specification**

• Features: SPI Daisy Chain Structure

Name: BMS Power Management System

• Model: BI5116 16S, BI5148 48S

• L X W X H: 184mmx 108.1mmx 31.2mm, 276mmx

108.1mmx 31.2mm

• Working Environment: -20°C-60°C

Applications: Sightseeing Cars, Sweepers, Power
Highlight: Ii ion battery management system,

lithium ion battery monitoring system

### **Product Description**

#### Solar Battery Management System Lithium Ion Rechargeable Lithium Polymer Battery

#### **Features**

(1) SPI daisy chain structure

The BIU and BMU are connected by a daisy-chain topology, and the main board and the slave board can collect data of a total of BIU (16~48)+BMU\*n string cells.

(2) Single cell voltage collection

The BIU and BMU collect the individual cell voltages through a voltage acquisition module.

(3) Temperature collection

The BIU and BMU collect the temperature of each battery module in the module through the NTC temperature sense.

(4) PACK total voltage detection

The BIU has a PACK battery pack total voltage detection function.

(5) CAN communication function

Each BIU has 3 CAN communications.

CANO, used by the BIU to communicate with the CSU and obtain the current total current.

CAN1, used by the BIU to communicate with the charger.

CAN2, used by the BIU to communicate with the vehicle VCU/MCU to receive commands and status information of the VCU/MCU.

(6) RS485 communication function

It can be connected to an external LCD display with 485 bus via 485 bus for power, voltage and current display, and program update is also possible.

(7) SOC, SOH, SOP calculation

The BIU calculates SOC and SOH, SOP based on parameters such as total current, total voltage, and voltage and temperature of the individual cells.

(8) Battery display

The BIU calculates the remaining power and displays it on the LCD, vehicle instrumentation, and calibration software.

(9) Drive relay / fan

The BIU controls the power-up and power-down of the load through the high-side drive.

(10) pre-fill module

When the BIU controls the load to be powered on, the main circuit load is pre-charged by the pre-charge module, and then power-on after completion. AUX+ can be used as a control for external precharge.

(11) Onboard insulation monitoring

Real-time monitoring of the high-voltage positive end to the car shell and the high-voltage negative end to the insulation resistance of the car shell, when the threshold is below a certain threshold, an alarm signal is issued.

(12) Input signal detection

The BIU judges the working state and charging state of the vehicle by detecting the vehicle KeyOn wake-up signal and the charger wake-up signal.

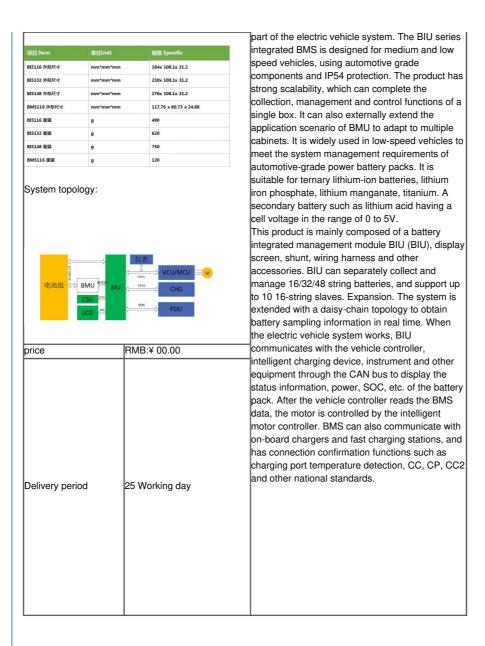
(13) Key information is saved after power down

When the BMS detects that the system is powered down, it stores the key data of the system, such as the highest and lowest voltages and corresponding positions, SOC, current, and historical faults, in the FLASH of the MCU for storage.

Number HY00070

Applications: new energy vehicles, electric vehicles, golf carts, sightseeing cars, sweepers, power

1		Number	H 100070
		Version	A0
	BI5116G		
	BI5116G integrated electric		
	Pool Management System	Date	2019-5-7
	Specification		
1 Basic characteristics		Product picture	
Product name	BMSIntegrated BMS battery		
	management system		
product code	BI5116G	1	
BMS:16S32S48S,BMS integrated battery		1	
management system is divided into: 16S32S48S,			
weight and specifications are as follows			
<b>:</b>			
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		system structure:	
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		The battery management system is an important	
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