

Compliance



6S - 24S SERIES BATTERY MANAGEMENT SYSTEM (BMS)

Battery Pack Monitoring and Control, Passive Cell Balancing, CAN, 5.1 BLE, Digital Output, Ultra-Low, Power Dissipation with Hardware Interlock Safety Layer Temperature based Balancing Algo High precision Current measurement High accuracy SOC algo Self Diagnostic Feature

1. FEATURES

Supports multiple battery chemistries – LFP, NMC, LCO, LMO, LTO

AIS156 Compliance

- Measures Individually upto 24 cell voltages in series Measures up-to 8 cell temperatures
- Up to 100V Battery Packs

Smart passive balancing algorithm with up to 110mA at 5.0V Cell

- Advance algorithms for State of Charge, State of Health, Remaining Capacity.
- Cell over voltage, under voltage, Open wire, Cell over and under temperature hardware interlock layer protection
- Isolated CAN 2.0B, 5.1 Bluetooth
- Pre-charge Control
- Current Sensor Monitoring
- Inbuilt Power Supply up to 12-60 Volt
 Fault Management
- Data Logging
 Ultra-Low Power Dissipation
- Automotive Grade
 Status LEDs for error indication and balancing
- Watchdogs and self-diagnostics safety systems
- Sleep mode current consumption is less than 500uA
- Compatible with our Dashboard in real time Offline and Online web portal also with IoT device 1.5 millivolt Accuracy Cell measurement
- As per AIS 156 Buzzer and LED indication on specific temperature Range

2. Applications

- Electric Vehicles (cars, trucks, busses, boats, heavy equipment, racing, etc.)
- Hybrid & Plug-In Hybrid Vehicles
- Solar and wind energy storage
- UPS and peak shaving applications
- Research & Laboratory Testing



3. CBMS Specifications:

| Parameters | Descriptions | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|
| Voltage range | 12 – 100 VDC | | | | | | |
| Number of Cells | upto 24 Cells | | | | | | |
| CAN Communications | Isolated CAN channel CAN 2.0B | | | | | | |
| Supported CAN speed | 125K, 250K, 500K, 1M bits/sec | | | | | | |
| Operating temperature | -20 to 85 °C | | | | | | |
| Storage | EEPROM (Can store data for analysis) | | | | | | |
| PDU MOSFETs Control Communication | Pre-charge, Charging Control, Discharging Control | | | | | | |
| Power Supply | Bluetooth with App, CAN | | | | | | |
| Active mode current consumption | Inbuilt 12-60 Volt | | | | | | |
| Sleep mode current consumption | 10-12 mA | | | | | | |
| Current Sensor Values | < 500uA | | | | | | |
| Cell Voltage Error | +/- 125 Amp | | | | | | |
| Measurement Period | ±1.0 mV, ±10.0 mV (-40 to 85 °C) | | | | | | |
| Temperature sensors | 50 ms to 10 Sec | | | | | | |
| On Board Temperature | Up to 8 | | | | | | |
| Temperature measurement accuracy | 3 Channel | | | | | | |
| Cell Balancing | ±1 °C (-40 to 85 °C) | | | | | | |
| Status LED | Passive (110mA at 5 Volt) | | | | | | |
| Extra Peripheral Connection | Running, Power, BLE Indication | | | | | | |
| Extra Sensor | SOC Indicator with Buzzer (If required) | | | | | | |
| Grade | None | | | | | | |
| | Automotive* | | | | | | |

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5. Application

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