



Battery module control products

What is a Battery Control Unit (BCU)?

The battery control unit (BCU) calculates battery states, performs BMS housekeeping, and communicates with the domain controller. It includes the master controller, power management IC, communication interfaces, transceivers, and memory for logs.

What is a battery management system?

Battery management systems consist of a battery control unit (BCU), a current sensor module (CSM) and several cell supervising electronic (CSE) units. For 48V batteries, these elements can be housed in a single control unit. For high-voltage batteries, they are separate and scaled up in a modular fashion.

What is the stc3117 battery management system?

Discover our new automotive Battery Management System solution for hybrid (HEV), plug-in (PHEV) and full electric vehicles (BEV). The STC3117 is a gas gauge IC with battery charger control for handheld applications. It includes the ST's Patented OptimGauge(TM) algorithm for accurate battery capacity calculation.

What is battery management system (BMS)?

The smart control and management of batteries in mobile and stationary use is termed battery management system (BMS). Battery management systems consist of a battery control unit (BCU), a current sensor module (CSM) and several cell supervising electronic (CSE) units. For 48V batteries, these elements can be housed in a single control unit.

What is battery management IC?

Battery management solutions require accurate voltage, current, and temperature measurements to determine the exact state of charge of batteries and battery packs. Battery management ICs also ensure safety by monitoring cell temperatures during use and charging and cutting energy if temperature limits are reached.

What is a battery cell controller?

Our battery cell controllers are designed to address safety risks related to Li-Ion batteries by accurately controlling critical Li-Ion cell characteristics (voltages, temperatures, current) and by providing embedded balancing functions along with extensive system diagnostics.

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This product can be ordered from and shipped to the United States, Canada and Australia. Shipping costs to these countries for one module EUR 125,-Find out more. Battery module controller EUR 1.499,00. Out of stock. Battery module controller. ...

Our comprehensive portfolio provides the critical building blocks for high-performance, efficient and safe power management control system for electric traction motors. 128 kB to 2 MB flash memory with ECC. Up to 4 KB EEPROM. Scalable low power Run and Stop modes. Fast wake-up, clock and power gating. Quick reference to our documentation types.

The heart of our BMS is the LION Control Module. It is based on a proven Arm®; Cortex®; CPU that processes the measurement data from up to 24 LION Measure modules in real time. This ensures precise and reliable monitoring of cell voltages and cell temperatures in all application ...

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Our products and Solutions. ST offers a broad range of 32-bit STM32 microcontrollers including ultra-low power MCUs that are ideal for the BMS applications. Additionally, ST provides an extensive portfolio of power MOSFETs, discrete products, and sensors to complete the BMS solution offering.

The battery control unit (BCU) calculates battery states, performs BMS housekeeping, and communicates with the domain controller. It includes the master controller, power management IC, communication interfaces, transceivers, and memory for logs. The BCU runs the BMS software, driving monitoring units, collecting values, and calculating battery ...

Schneider Electric USA. ABL8BBU24200 - battery control module, phaseo ABL7 ABL8, 24 to 28.8V DC, phaseo ABL7 ABL8, 24V, 20A, for regulated SMPS. Skip To Main Content . USA Our Brands Item count in cart is 0 My Cart Item count in cart is 0 My Documents Login/Register User name Logout. Our Brands. Register today. Get custom product tools and ...



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XY-L30A Battery Charger Control Module 30A DC 6-60V Battery Charger Control Module Overcharge Protection Control Switch Feature:1 pport Lead-acid battery and Acting Battery,voltage range:6V~60V;2.Can display ...

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