72v battery 180amp bms

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The BMS is an essential part of each Li-ion battery. It provides protection against fault conditions such as overcurrent, overtemperature, and overvoltage and ensures safe behaviour. Components such as MOSFETs, gate drivers, MCUs and ICs interact to communicate vital battery data to the user through estimations of SOC (state of charge) and SOH (state of health)

Power tools, drones, eBikes and electric 2-wheelers are now very popular consumer electronics devices. High current capability is required in these devices, and therefore new types of lithium-ion cells have started to take over.

With these new solutions, power tools are made more powerful without becoming too heavy. In these applications, it is important that each battery has a robust and safe battery management system (BMS) board.

Drones are moving towards Industry 4.0, which brings the need for robots to be smarter and more interconnected. Connectivity and data security must be integrated into all existing systems, includng the BMS. In addition, safety is a key concern when robots interact with their environment.

In eBike applications, the battery can be placed in many different positions. It can be on the frame, integrated, or placed a as rack or in a double configuration. Regardless of where it is, it should be lightweight and have high energy density. Here, the BMS protects the battery against failure conditions, manages its functionality, and extends its lifetime.

Infineon is actively shaping the future of BMS by developing and offering industry-leading solutions.

Infineon"s wide portfolio of solutions includes products for LDO, security, memory, battery monitoring, pre-charge FETs, charging and discharging FETs, balancing FETs, and gate drive. The portfolio includes our 85 V to 300 V N-channel MOSFETs are ideal for applications such as power tools, drones, eBikes and electric 2-wheelers. With ultra-low reverse recovery charges (Qrr) and excellent on-state resistance (RDS), Infineon"s range of 85 V-300 V N-channel MOSFET lead to an overall system cost reduction.

With an extensive product portfolio of N-channel MOSFETS in the 85 V to 300 V range, Infineon has your needs covered for both industrial and automotive applications.

Read more about medium voltage MOSFETs

In battery management systems, a compact and reliable solution that powers the entire system is required. Here, several components can be integrated, in order to manage extreme battery voltage fluctuations. Infineon"s portfolio of power management ICs (PMICs) meet these requirements and more, including the

latest network interfaces and automotive security.

PMICs support comprehensive power supplies with a small form factor footprint for system solutions using Infineon"s TRAVEO(TM), AURIX(TM), and PSoC(TM) MCU families. Boost function integrated into the PMICs avoids system blackout under extreme battery voltage fluctuations. The low quiescent current of the PMICs reduces the standby current of always-on functions. The PMICs comply with AEC-Q100, and extensive system safety functions help to comply with modern ECU requirements.

Recommended PMICs for BMS:

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