

Electric Vehicles Battery Management System With Charge Monitor And Fire Protection

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Abstract: *This paper explores the design and implementation of an Electric Vehicle Battery Management System (EVBMS) with Charge Monitoring and Fire Protection. Developed for Li-ion battery packs in electric vehicles, the system ensures continuous monitoring and protection. Utilizing hardware components such as Li-ion batteries, monitoring systems, microcontrollers, LCD displays and sensors, the EV-BMS facilitates safe charging and proactively prevents accidents. Integrated fire protection utilizes advanced sensors and algorithms to detect and mitigate fire hazards. Through microcontrollers and user-friendly interfaces, the project offers a comprehensive solution, contributing to the safety and efficiency of electric vehicles.*

Keywords: *Fire Protection.*

