Abstract

Battery management system which consists of a controller that has algorithms to monitor and control several parameters such as, Soc, Soh, temperature, voltage and current. Battery management system (BMS) is having software and hardware. Software contains algorithms, limits for voltages, currents and temperatures and Hardware contains relays, cell balancing and signal conditioning circuits. In order to control battery performance and safety it is necessary to understand what need to be controlled and why it needs controlling. This user friendly battery system will helps to make charging very comfort by some algorithms and to evolve the performance characteristics of various batteries and display the voltages, currents, state of charge, state of health through various algorithms and display them.

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Index Terms

Computer Science
Circuits And Systems

Keywords

BMS(battery management system) voltage current soc(state of charge)
soh(state of health)

VPC (Volts Per Cell)

DOD( depth of discharge)