

Electric Vehicle Storage Energy System and Single Charge Balancing Circuit: Preview

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Abstract

Electric vehicle (EV) demand is increasing due to the power of the whole energy storage system, ease of handling, and flexibility. The battery management system is essential for safely driving the EV, increasing the battery life. Recently Habib et al. in “Sustainable Energy Technologies and Assessments” & “Journal of Energy Storage” reported EV-applicable energy storage systems and proposed a cell balancing circuit for the battery for bulk energy storage systems to use in EV, renewable energy (RE) storage and electric grid application. The proposed batteries’ voltage equalization circuit achieved a 0mV voltage gap with 96% and 94.2% efficiency for Li-ion and lead batteries, respectively, and 84.43% efficiency for supercapacitors.

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