

# Study of series Li-ion batteries electric energy diagnosis management system

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## ABSTRACT

The main purpose of the thesis is to study on the series Li-ion batteries electric energy diagnosis management system, if it can not protect the batteries adequately, it may make the life-span short, and lower efficiency, as well as influence the state of charge(SOC) accurately. By the series Li-ion batteries electric energy diagnosis management controller, it can protect the batteries from damage, and maintain the working efficiency. The whole system are consisted of the display of residual energy、the batteries diagnosed module、and the module of management of batteries. The systm achieve the goals that can balance the voltage in each batteries, and the management battery pack can receive the capabilities of charging and discharging of current and temperature, as well as it can estimate the residual energy and life-span. The controller used the chips, 8051, and protection IC, LTC6802, to reach the aims of protection batteries

Keywords : Battery management system , Battery balance, SOC

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