Development of Dynamic LiFePO4 Battery Charging Systems for Dual Power Driving Vehicles

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Abstract

In recent years, the increase of traditional internal combustion engine (ICE) vehicles cause the environmental pollution become more serious and the petroleum storage quantity are getting fewer and fewer on Earth. The techniques of energy-conservation become most important research subject in the world. In order to improve these questions, the development of dynamic charging system is necessary. The generator control and battery management techniques are played important roles in electric vehicles or hybrid electrics vehicles (HEV). In this thesis, we research the generator control and battery management techniques of dual power driving vehicle. Base on high efficiency power demand, we chose LiFePO4 battery in the research. The performance of LiFePO4 battery has high discharge power, fast charging and long cycle life. It is the present industrial inside front cover signature page authorization copyright statement

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