

عنوان مقاله:

Design and simulation of a DC EVSE for electric vehicles

محل انتشار:

اولین همایش بین المللی قوای محرکه نوین (با محوریت خودروهای برقی) (سال: 1397)

تعداد صفحات اصل مقاله: 15

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خلاصه مقاله:

Electric vehicle supply equipment (EVSE) is important equipment for charging the electric vehicles. This equipment has been offered by electric vehicle manufactures in various charging powers. One of the major challenges with electric vehicles is their limited range for any charging or limited driving distance per one hour of charging. Fast-charging is a solution for this concern. In this paper a switching modular converter for DC fast charging of electric vehicles has been designed. A cost based section approach has been utilized for magnetic core selection and designed magnetic core verified by finite element method. Also two control modes adopted by received information from BMS have been suggested. For verification of designed converter, simulation results have been proposed

کلمات کلیدی:

Electric Vehicle; fast charging; converter design; CC/CV control mode; Nissan Leaf 2015

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