BATCH-2

RESONANT INVERTER STAGE IN MODULAR CONVERTER FOR ELECTRICAL VEHICLE CHARGER

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ABSTRACT

The well-established advantages of resonant converters, including simplicity of circuit configuration, easy of the control scheme, low switching losses, and low electromagnetic interference (EMI), among other converters. The existing system consists of switched mode power converters, so it takes more time to charge the battery and it has high switching losses. In order to overcome these disadvantages, the proposed system is designed. The proposed system develops a highly efficient battery charger with an improved series-loaded resonant converter for fast charging applications to improve the performance of traditional switching mode charger circuits. The switching frequency of the improved series-loaded resonant battery charger was at continuous conduction mode. The Charging efficiency can be improved using an improved series-loaded resonant converter with modular converter.