Abstract

Nowadays battery fed electrical vehicles are commonly being used because of their advantages over conventional IC engine vehicles. This work aims at comparison of various methodologies
A Survey on DC-DC Converter for Hybrid Electrical Vehicle

for hybrid electrical vehicle. In most application a bidirectional dc-dc converter fed permanent magnet dc (PMDC) motor traction drive system for battery fed electrical vehicle (BFEVs) is being used. There is increase in efficiency with the use of the half bridge non-isolated bidirectional dc-dc converter by maintaining battery voltage level to the motor rated voltage and also a controller which works in both the modes i. e. motoring and regeneration has been suggested for the speed control.

References

- Khaligh, Alireza, and Zhihao Li. &quot;Battery, Ultracapacitor, fuel cell, and hybrid energy storage systems for electric, hybrid electric, fuel cell, and plug-in hybrid electric vehicles: State of the art. &quot; Vehicular Technology, IEEE Transactions on 59, no. 6 (2010): 2806-2814.

Index Terms

Computer Science

Applied Sciences
Keywords
Battery Fed Electrical Vehicle (bfev)  Bidirectional Dc-dc Converter  Battery.