High efficiency isolated DC/DC converter inherently optimized for fuel cell applications - DTU Orbit (21/01/2019)

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The isolated full-bridge boost converter has been suggested as the best choice for fuel cell applications. Comparisons have been carried out in the literature using both stress factors and experimental verified designs to determine the optimal converter. Never the less, this paper suggests a different topology not previous used for fuel cell applications with some clear advantages. Taking into account the I-V characteristics of the fuel cell only emphasized the performance of the proposed converter and reveals its self as an optimal candidate for the fuel cell application.

General information
State: Published
Organisations: Department of Electrical Engineering, Electronics, Ballard Power Systems Europe A/S
Contributors: Petersen, L. P., Jensen, L. C., Larsen, M. N.
Publication date: 2013

Host publication information
Title of host publication: Proceedings of 2013 15th European Conference on Power Electronics and Applications
Publisher: IEEE
ISBN (Print): 9781479901166
Keywords: Aerospace, Components, Circuits, Devices and Systems, Power, Energy and Industry Applications, Robotics and Control Systems, Transportation
DOIs: 10.1109/EPE.2013.6634709
Source: dtu
Source-ID: n::oai:DTIC-ART:iel/409574779::33321
Research output: Research - peer-review » Article in proceedings – Annual report year: 2013