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關鍵字(英)	Double-ended forward converter EMI PFC soft-switched synchronous rectifier
摘要(中)	本文主要探討低電壓輸出交流轉直流電源供應器與傳統電源供應器在於效率及電磁干擾之比較。本文利用零電壓轉移技術於功因修正器和同步整流技術取代傳統式電路。經電腦模擬及電路實驗證實該電路可有效提昇效率及改善電磁干擾。本文也另提出應用簡單及低成本可抑制 EMI 之其他方法。
摘要(英)	In this paper, a low DC voltage output, soft-switched zero voltage transient (ZVT) boost power factor correction (PFC) with synchronous rectification (SR) AC-DC forward converter is presented. The simulation and experimental results are compared to show the efficiency and the electromagnetic interference (EMI)

	performance of the proposed converter is better than the conventional converter. Also some simple EMI solutions are introduced and verified in the closed loop converter.
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