

# A Soft Switching Scheme for DC-DC Converter by Employing Single Phase Multi-level Inverters

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## Abstract-

In order to increase the conversion efficiency of a PV system, a high-efficiency PV power inverter with simple control methodology is required. To satisfy this requirement, an improved single phase inverter using soft switching technique is proposed. The proposed power inverter circuit is composed of a ZVT PWM boost dc-dc converter and a LLC resonant inverter. The dc link voltage amplitude is controlled by ZVT

PWM boost dc dc converter with soft switching transition. The stable sinusoidal ac output voltage is inverted from dc-link voltage via a LLC resonant inverter. The effectiveness of the proposed inverter for small PV system is verified by simulation results.