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# Cascaded Transformer coupled Multilevel inverter based Shunt Active Power Filter

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**Abstract:** This paper presents a cascaded transformer coupled multilevel inverter which is able to generate higher voltage levels with reduced switches. The complete design aspect and modulation method of the proposed a cascaded transformer coupled multilevel inverter is explained along with its harmonic compensation ability when operated as a shunt active power filter. The proposed shunt active power filter is operating with single DC-link which minimizes the complexity for voltage balancing. Its topology is modular in structure and based on three phase voltage source bridge inverter. It minimizes the component count drastically with comparison to number of voltage levels. The proposed filter is