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Grid integration of solar system using various MLI topologies; a review

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Abstract:

There has been expanding need to heighten the support of cleaner types of energy to blend with the existing utility infrastructure, especially wind, small hydro and solar energy. The most popular and widely adopted renewable energy is solar energy which has been utilized for powering utility. The grid connected operation of these green form of energy sources require inverters. Multi-functionality in converters are drawing attention of researchers, since it is the main link of grid tied solar system. A lot of ongoing research has been reported in literature for auxiliary services on power quality improvement through multi-functional grid-tied (MFGT) converters. These converters can perform dual work of interfacing solar system with the grid and also conditions the power at point of common coupling. This paper presents an overview

Keywords:

Solar Panel, Maximum Power Point Tracking, multi-functional grid-tied (MFGT) converters, Power quality issues, Single stage, Dual Stage.