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	Contents		
	I. Introduction Now a day, the grid integration of renewable energy based generationis increasing with improved power quality feature such as harmonics elimination, reactive power compensation and load balancing. In recent studies the two and three level inverters are compared based on semiconductor losses and filter consideration and evaluated that three level inverter possess lower Sign in to Continue Reading semiconductor losses for higher switching frequencies than the two level counterparts because three level inverters have only one device commutate at each transition. In addition to that, ac output waveform of a multilevel inverter possess a lower harmonic and reduced sizes of the ac filter components are possible [1]–[4].		
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