Abstract

This paper deals with the modulation techniques associated with the single phase pulse width modulated (PWM) rectifier. A PWM rectifier is obtained by replacing the diodes in a bridge
rectifier with power electronic switches like MOSFET, IGBT etc. The ON/OFF instants of these switches can be controlled to approximate input power factor to unity and reduce total harmonic distortion (THD) of input current. A MATLAB simulation of PWM rectifier using hysteresis current control technique is done using simulink and waveforms are analyzed for power factor, THD and ripple in output voltage.

References

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