In this paper proposes a SPWM control strategy fifteen level cascaded H- bridge multi level inverter. This method introduce sine wave is compared with the triangular carrier wave with different phase relationship. The carrier based Phase disposition PDPWM, PODPWM, APODPWM have been analyzed in this paper. The PWM control strategy method for multi level inverter to reduce the total harmonics distortion in the output waveform. The simulation is done by matlab / simulink environment.
A Comparative Analysis of Multi Carrier SPWM Control Strategies using Fifteen Level Cascaded H – bridge Multilevel Inverter

- Aglidis and M. Calasis &quot;Application specific harmonic performance evaluation of multi carrier PWM techniques&quot; in IEEE PESC, pp 172-178
- Tianhao Tang, Jingga Han, Xinyuan Tan, &quot;Selective Harmonic elimination for a cascaded multilevel inverter&quot; IEEE Transaction on Industrial Electronics, 2006 IEEE international Symposium, volume2, July 2006, pp997-981
- D. Mohan and Sreejith B. Kurub &quot;Performance Analysis of Multi Level Shunt Active Filter based on SDM&quot; in CiiT International Journal of Digital Signal Processing pp42 - 46
- D. G. Holmes, T. A. Lipo, &quot;Modern Pulse Width Modulation Techniques for Power Converter&quot;, IEEE Press, 2003

**Index Terms**

Computer Science Power Electronics

**Keywords**
A Comparative Analysis of Multi Carrier SPWM Control Strategies using Fifteen Level Cascaded H-bridge Multilevel Inverter