Simulation of SPWM Control Method for UPS System

Abstract

This paper deals with the analysis of implementing Sinusoidal Pulse Width Modulation (SPWM) controlling strategy in three phase Uninterruptible Power Supply (UPS) system operating under highly nonlinear load. The conventional type of controller is not enough to reduce harmonics in the system under highly nonlinear load in high power system. The SPWM based method is applied to the UPS system to reduce THD level at minimum value. The Simulation is done by Matlab/Simulink environment.

Index Terms

Computer Science
Applied Sciences
Keywords
SPWM  UPS  nonlinear load  THD