Pure Sine Wave Inverter Using Atmel 89S2051

ajay_bhargav, Tue Nov 10 2009, 07:23 pm

This 8051 project demonstrates generation of pure sine wave with the help of PWM technique where the original sine wave is divided into n number of small segments or samples. These samples are regenerated by 8051 controller to recreate the original sine wave.

Block Diagram of Pure Sine wave inverter

The inverter will converts 12 Volt dc from battery into 110 Volt ac, 50 Hz, sine
wave. As from the block diagram, PWM Pulse train is generated and is fed to MOSFET switching circuit which is connected to primary side of transformer. Output of transformer is filtered to get pure sine wave.

Complete information on this project: Attachment » Pure Sine Wave Inverter Using Atmel 89S2051