VISVESVARAYA TECHNOLOGICALUNIVERSITY
BELAGAVI-590 002

A Project Report on

"AN OPTIMIZED DESIGN AND IMPLEMENTATION OF A 400W HIGH POWER INVERTER WITH BUILT IN CHARGER"

BACHELOR OF ENGINEERING IN

ELECTRICAL & ELECTRONICS ENGINEERING

(KSCST SPONSORED)

PROJECT REFERENCE NUMBER: 38S1205

Karnatak Law Society's

VISHWANATHRAO DESHPANDE RURAL INSTITUTE OF TECHNOLOGY
HALIYAL, UTTAR KANNADA-581329

Abstract:

The purpose of this project is to design and construct a 500VA, 220 Volts Inverter at a frequency of 50Hz. This device is constructed with locally sourced components and materials of regulated standards. The basic principle of its operation is a simple conversion of 12V DC from a battery using integrated circuits and semiconductors at a frequency of 50Hz, to a 220V AC across the windings of a transformer. An additional power supply to the public power supply with the same power output is thus provided at an affordable price.