VARIABLE POWER SUPPLY
BY
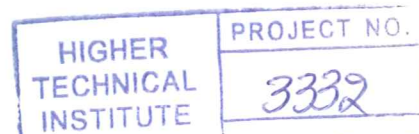## SAMANTHE JAYATHILAKE

PROJECT REPORT

SUBMITTED TO

THE DEPARTMENT OF ELECTRICAL ENGINEERING
OF THE HIGHER TECHNICAL INSTITUTE
NICOSIA, CYPRUS.

**In Partial satisfaction of the award
Of diploma of
Technician Engineer
In Electrical Engineering**

E1285

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June 2002**

Introduction...

A variable power supply, a soldering iron and a multimeter form the minimum basic equipment required in a small electronic workshop. Unfortunately for many, a commercial variable power unit is not exactly cheap, which is an excellent reason for building one from scratch.

The power source described in this article is Ideal for that purpose. It has a number of preset facilities. It design is straightforward and it has the facility to be connected to a digital voltmeter –dvm-module to display the out put voltage and current.

Moreover apart from some power field effect transisietrs (FET's) it is constructed from readily available standard components. Finally it may be constructed to provide and output current of 2A.A variable power supply is describe that inspite of its simple design has to clear benefits in the first place it is built from discreet, readily available components, and the second place it can be readily adapted to individual requirements.

The power supply is designed along fairly traditional lines, resulting in a unit whose out put voltage as well as its current limiting is variable. In principle both can be varied from nought, but in this design it was divided to make the peak values of voltage and current variable. This peak value can be varied from..2....v to.25.v and from.2.1..mA to 2A.This make the supply suitable for use in a variety of applications.

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