

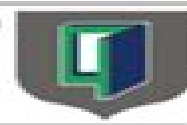
## Step\_Up\_Chopper -- Overview



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### STEP-UP CHOPPER (DC-DC CONVERTER)

#### Objective:

After performing this lab exercise, learner will be able to:

- Understand the working of DC-DC converter.
- Understand and design single-phase Step Up Chopper.
- Analyze and interpret results.
- Learn the role of Power Electronics in utility related applications, e.g. UPS, SMPS etc.
- Work with digital oscilloscope to debug circuit and analyze signals.

#### Equipment:

To carry out this experiment, you will need:

- Single Phase DC-DC converter Kit
- SCR firing circuit kit, 1-phase, 230V, 5A
- Patch chords
- Load
- Digital Oscilloscope (TBS1000B-EDU from Tektronix)

#### Circuit Diagram:



#### Theory:

- A chopper is a high speed ON/OFF switch. It connects source to load and disconnect the load from the source at very fast speed. Hence a chopped output voltage is obtained from a constant DC supply.
- If in a chopper average output voltage  $V_o$  is greater than the input voltage  $V_s$ , then this type of chopper is called as step up

# Lab Manual For Step Up Dc Chopper

**Jessica J Manson**



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