

Scilab Manual for  
Power Electronics and Drives Laboratory  
by Prof Jesus Bobin  
Electrical Engineering  
St.xavier'S Catholic College Of Engineering<sup>1</sup>

Solutions provided by  
Prof Jesus Bobin  
Electrical Engineering  
St.xavier'S Catholic College Of Engineering

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# **Experiment: 1**

## **Simulation of single phase semiconverter**

This code can be downloaded from the website [www.scilab.in](http://www.scilab.in)

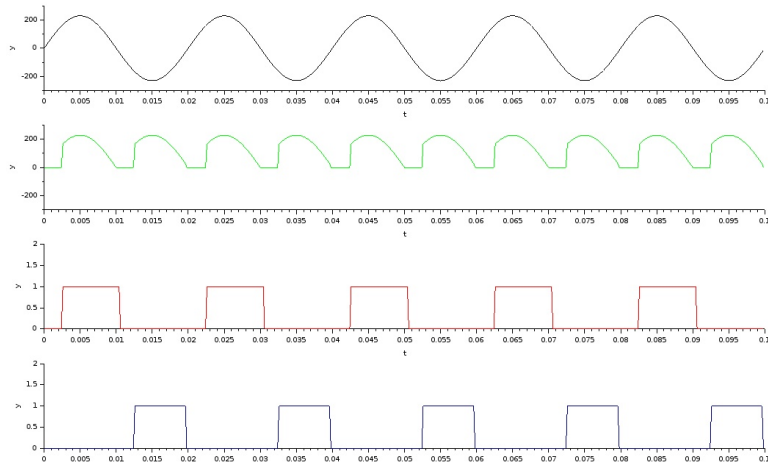


Figure 1.1: Single Phase semi converter

## **Experiment: 2**

### **Simulation of three phase semiconverter**

This code can be downloaded from the website [www.scilab.in](http://www.scilab.in)



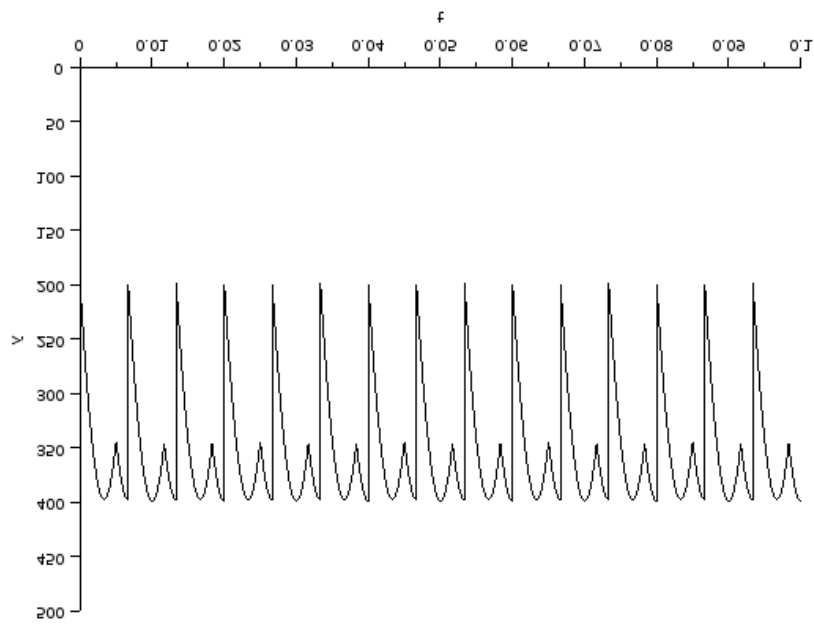


Figure 2.1: three phase half converter with resistive load

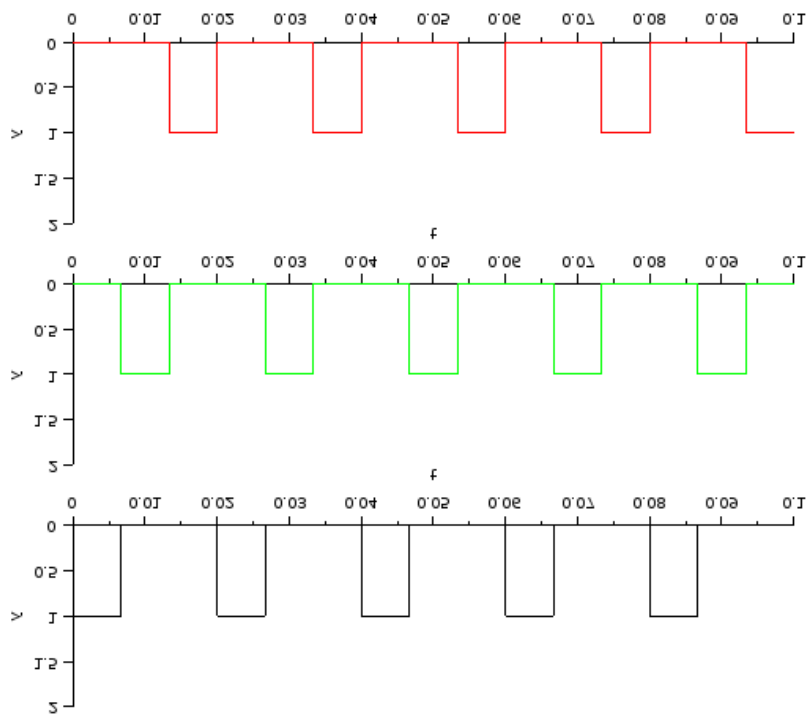


Figure 2.2: three phase half converter with resistive load

## **Experiment: 3**

### **Simulation of single phase fullconverter**

This code can be downloaded from the website [www.scilab.in](http://www.scilab.in)

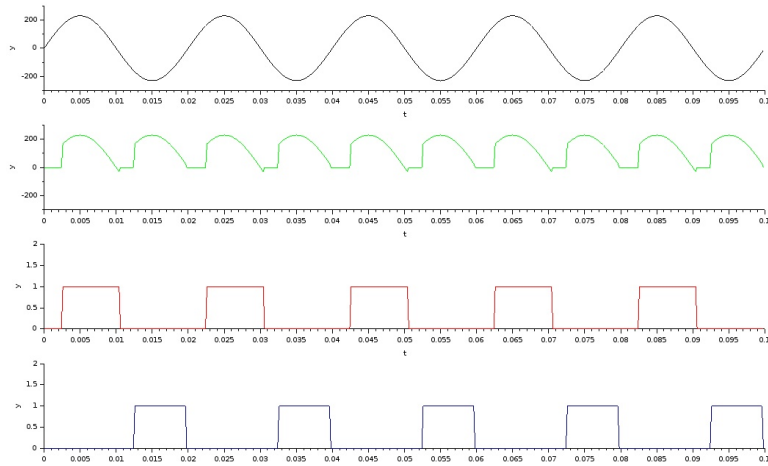


Figure 3.1: Single Phase Fully Controlled Converter

## **Experiment: 4**

### **Simulation of three phase fullconverter**

This code can be downloaded from the website [www.scilab.in](http://www.scilab.in)

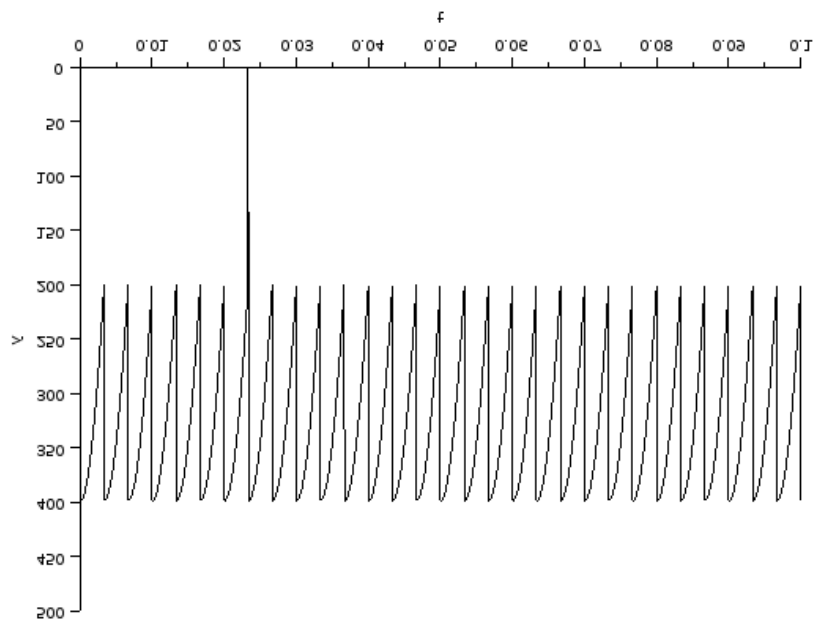


Figure 4.1: three phase full converter with resistive load

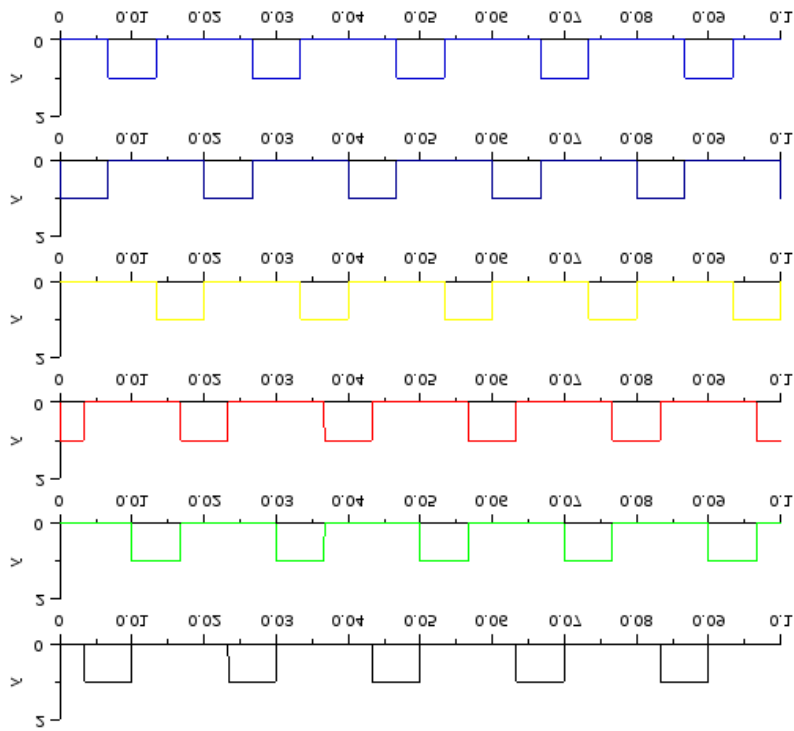


Figure 4.2: three phase full converter with resistive load

# Experiment: 5

## DC to DC converters

This code can be downloaded from the website [www.scilab.in](http://www.scilab.in)



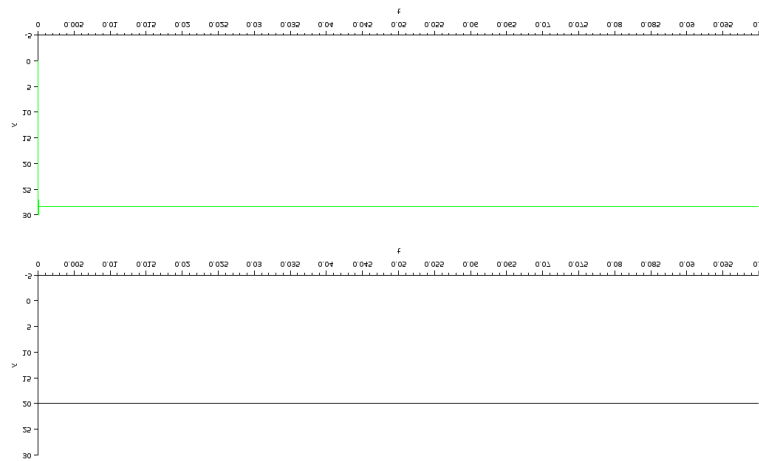


Figure 5.1: Boost converter