

<u>DATE</u> : <u>23/08/2019</u>

EXPERIMENT: COMPUTER SIMULATION OF

POWER ELECTRONIC CIRCUITS

OBSERVATIONS:

PART 01

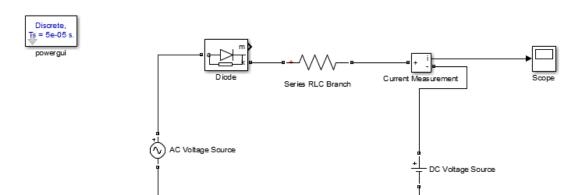


FIGURE 1: MATLAB SIMULATION CIRCUIT

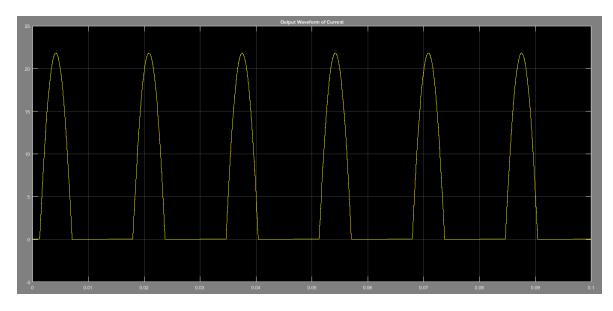


FIGURE 2: OUTPUT WAVEFORM OF CURRENT

PART 02

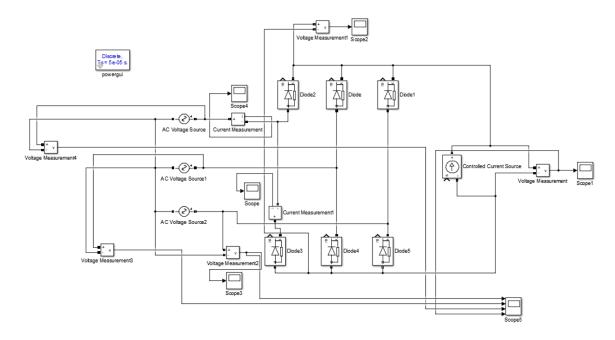


FIGURE 3: MATLAB SIMULATION CIRCUIT

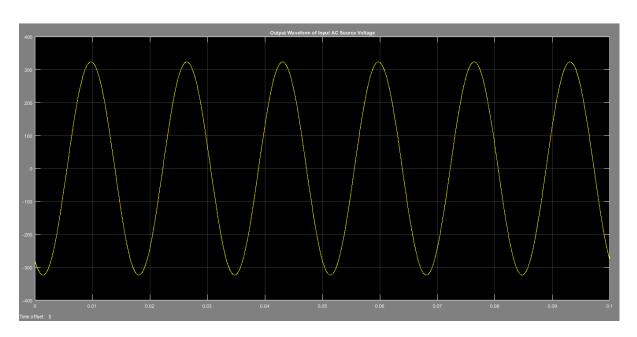


FIGURE 4: INPUT AC SOURCE VOLTAGE

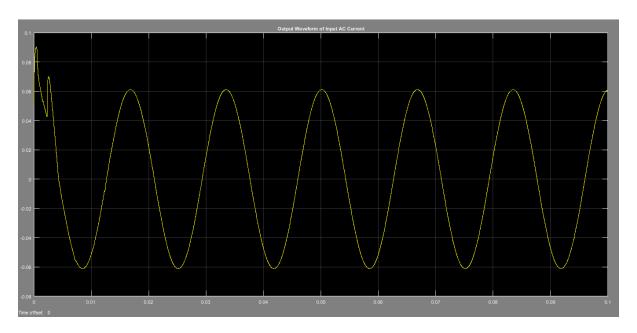


FIGURE 5: INPUT AC CURRENT

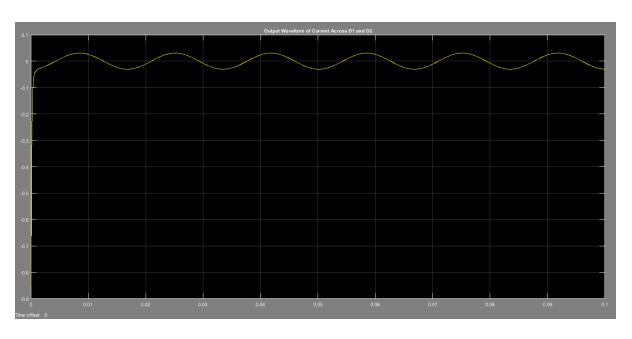


FIGURE 6: CURRENT ACROSS DIODE D1 AND D2

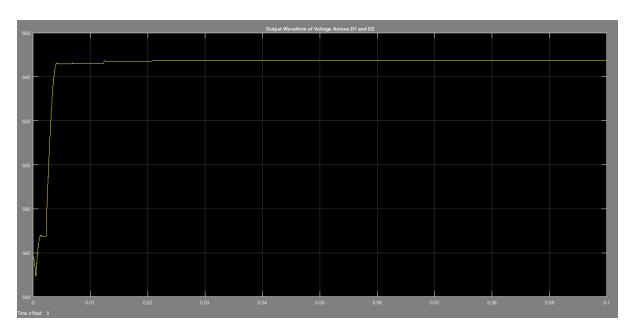


FIGURE 7 : VOLTAGE ACROSS DIODE D1 AND D2

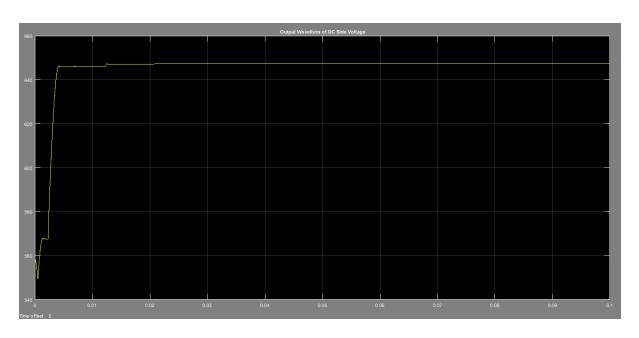


FIGURE 8 : DC SIDE VOLTAGE

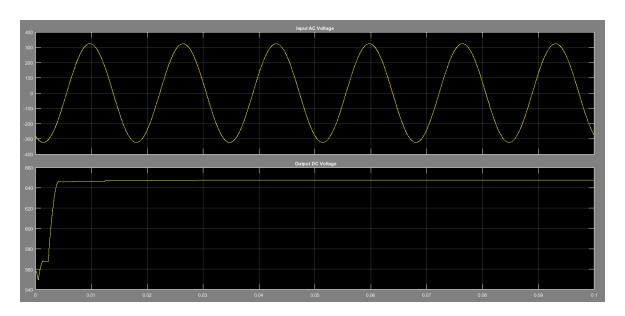


FIGURE 9: INPUT AC VOLTAGE AND OUTPUT DC VOLTAGE

PART 03

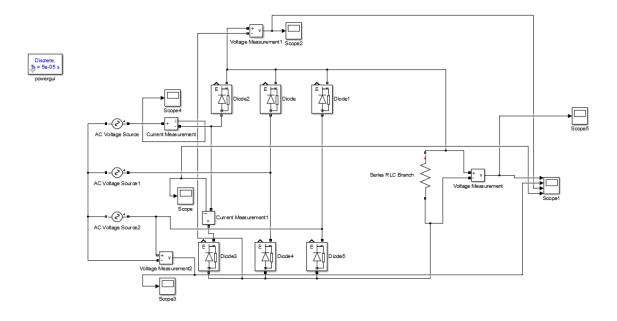


FIGURE 10: MATLAB SIMULATION CIRCUIT

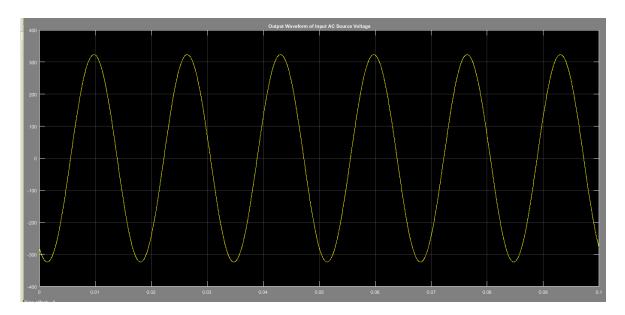


FIGURE 11: INPUT AC SOURCE VOLTAGE

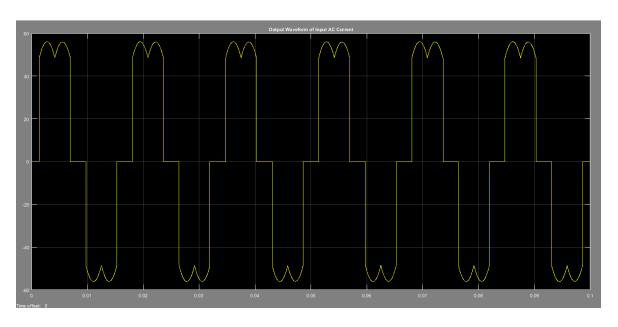


FIGURE 12: INPUT AC CURRENT

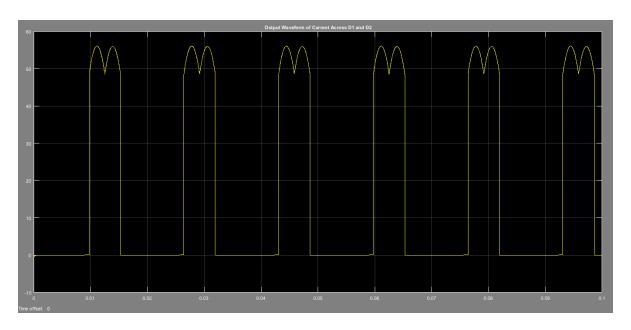


FIGURE 13: CURRENT ACROSS DIODE D1 AND D2

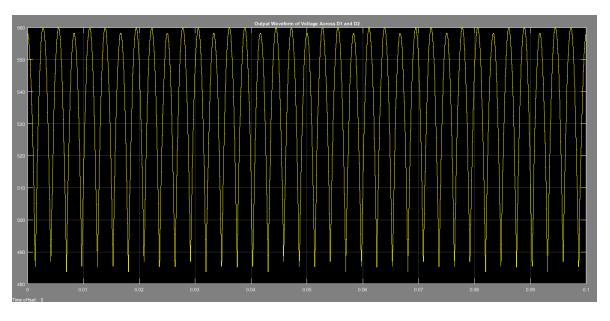


FIGURE 14: VOLTAGE ACROSS DIODE D1 AND D2

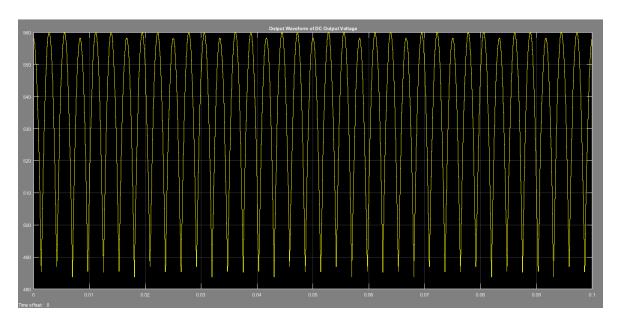


FIGURE 15 : DC SIDE VOLTAGE

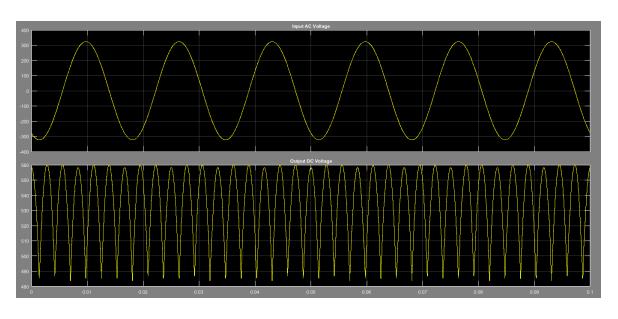


FIGURE 16: INPUT AC VOLTAGE AND OUTPUT DC VOLTAGE