

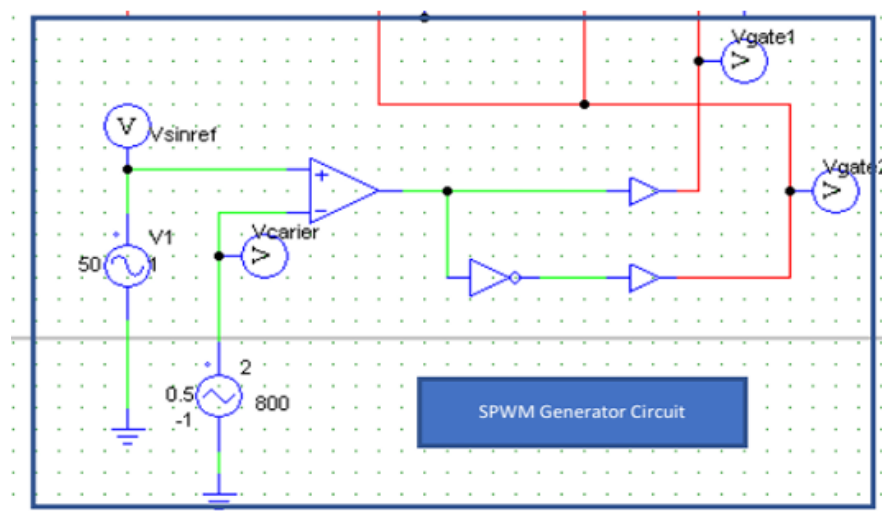
**TITLE:** Bipolar sinusoidal pulse width modulation using eSim

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**PROBLEM STATEMENT:** Current inverters play a crucial role in converting DC from backup power sources, into AC. A significant drawback of this inverter is its tendency to produce large harmonics. These harmonics degrade the power system quality, and reduce the lifespan of loads. Bipolar Sinusoidal Pulse Width Modulation (SPWM) is a technique used to generate a high-quality sine waveform output from an inverter. The resulting modulation is filtered through a Low Pass LC filter to produce a clean sine waveform output.

**CIRCUIT DIAGRAM:**



**Title of the paper:** Sine Wave Inverter Bipolar SPWM using Analog Triggering Circuit

**Name of the journal:** International Journal of Engineering Research & Technology (IJERT)

**Author:** Catur Rakhmad Handoko

**Chapter volume pages:** Volume 8 , Issue 03(March-2019)