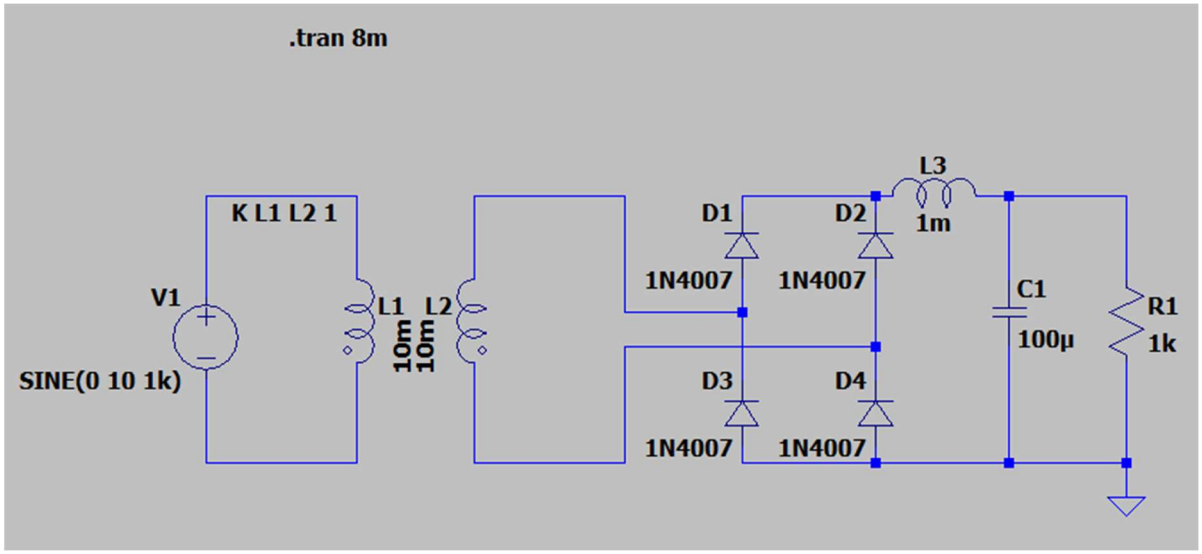
FULL WAVE BRIDGE RECTIFIER

Circuit:



Circuit Components:

AC voltage source, Transformer, 1N4007 diodes (4 in no.), Inductor (1mH), Capacitor (100uF) and Load resistor (R1=1kΩ)

Function:

The Full Wave Rectifier is an electronic circuit that converts entire AC signal into Pulsating DC

Bridge Rectifier is one type of Full Wave Rectifier, considered to be the one of the most efficient for the process of rectification. It consists of 4 diodes arranged in the form of a bridge, in each cycle 2 diodes conduct to form a conduction path.

Applications:

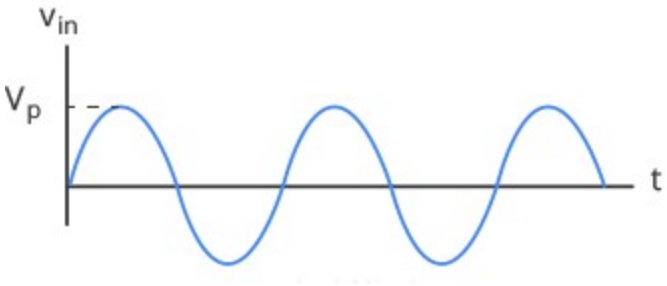
It is used in most circuit to convert AC signal to DC such as:

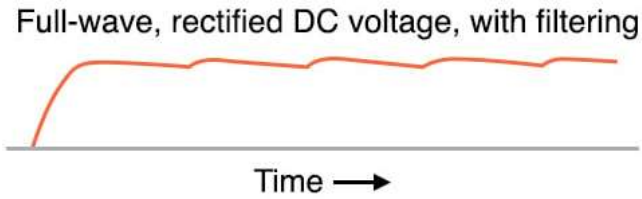
Charger Cirucit

UPS

Radios

Ideal Waveforms:





Simulated Waveform (simulated to 8ms)

Input signal: White

Output signal: Green