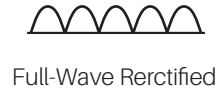


Bipolar Half-Wave Rectifier



What is a Rectifier?

A rectifier is a simple electrical circuit, mostly found in powersupplies, which converts AC into DC.



Introduction

The Bipolar Half-Wave Rectifier is a passive half wave rectifier, with outputs for the positive and negative rectified half wave. Due to its passivity, it can be used backwards, to combine the positive half of one signal, and the negative half of another. The signal can be in the audible and sub-audible range, for audio and CV signal processing.

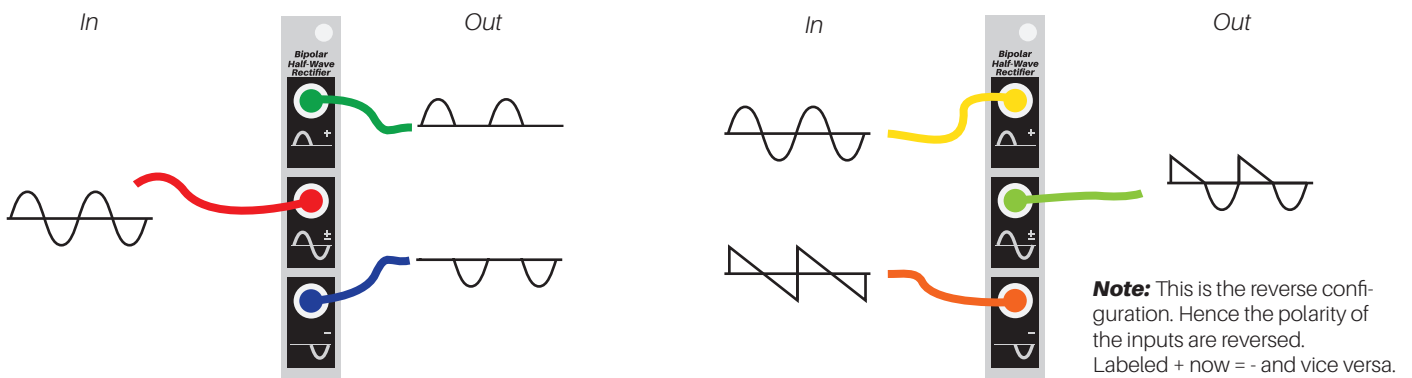
Simply put it separates a signal into two parts/channels/halves, the positive and negative half. In reverse it combines the respective halves of two signals into a single signal.

Using it in its regular configuration enables the patching of the two halves of a wave to different sound processors, rather than sending both halves of the wave to two processors, and then mixing the signal. When mixing the signal the sound can become muddy very quickly, while splitting the signal will allow the processing which is occurring to be heard more distinctly. This idea can of course also be used the other way round, sending the full signal to the two sound processors, and then patching the processors outputs into the positive and negative sockets of the BHWR.

Using it in reverse with two audio signals can also yield interesting ring/phase modulation style effects, or, using CV signals, can provide interesting ways to mix CV.

A simple utility module, with countless complex applications.

Visual Explanation:



Limited Warranty

The mechanical and electronic components in this device are warranted to be free of material or workmanship defects for a period of 2 years from date of manufacture. Any such defects will be repaired or replaced at the discretion of CFM.

Defects caused by the following are not included in this warranty:

- Physical damage caused by maltreatment of the device (i.e. submersion, inappropriate use of force etc.)
- Damage caused by inappropriate use.
- Overexposure to heat or coolth.

No responsibility for harm to person or apparatus caused through operation of this product is implied or accepted. By using this product you agree to these terms.