



**DUAL - WAVE
RECTIFIER**

USER MANUAL

THANKS YOU

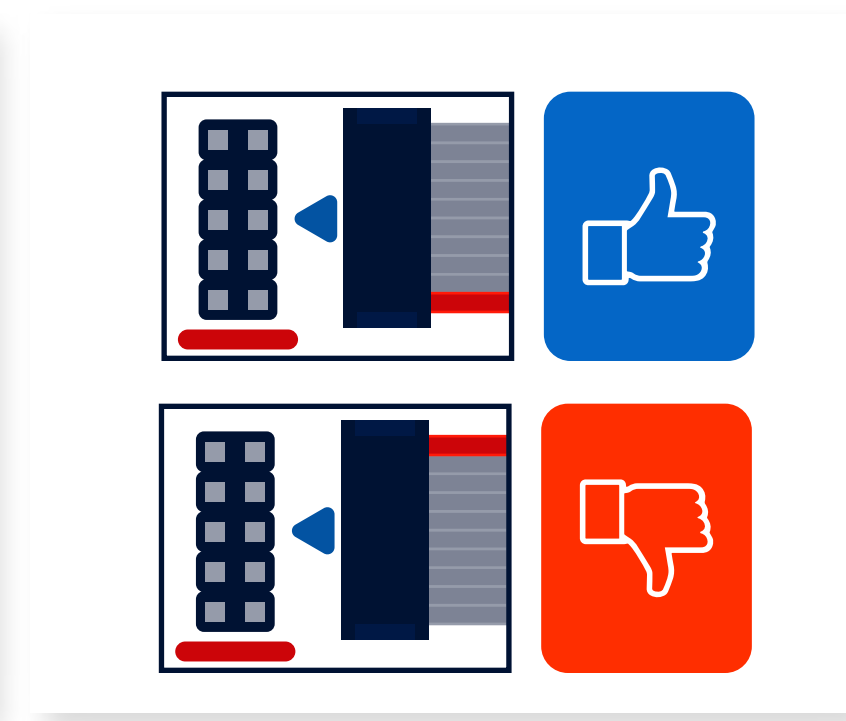
*Thanks for supporting BLACK NOISE.
Your module have been designed and assembled with love
and care in France.
We hope you will enjoy your module as much as we are.*



INSTALLATION & POWER SAFETY

1
Disconnect you rack power from the main.

2
Align the red line from the power ribbon cable with the line draw next to the power connector on the module side.



3
Check again the polarity of the ribbon cable.

4
Check the polarity one last time.

5
Connect you rack power from the main.

6
Power you rack.

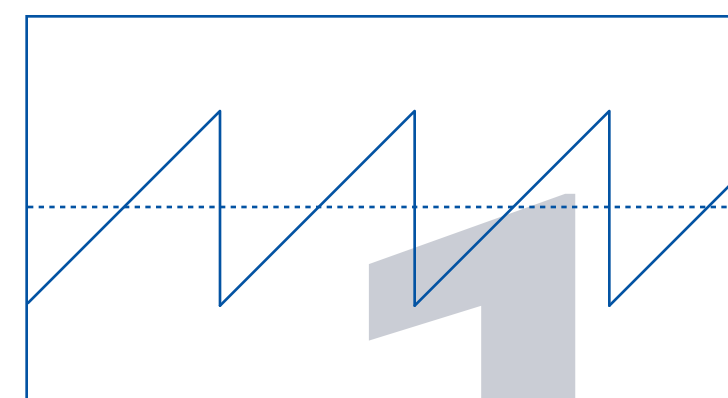
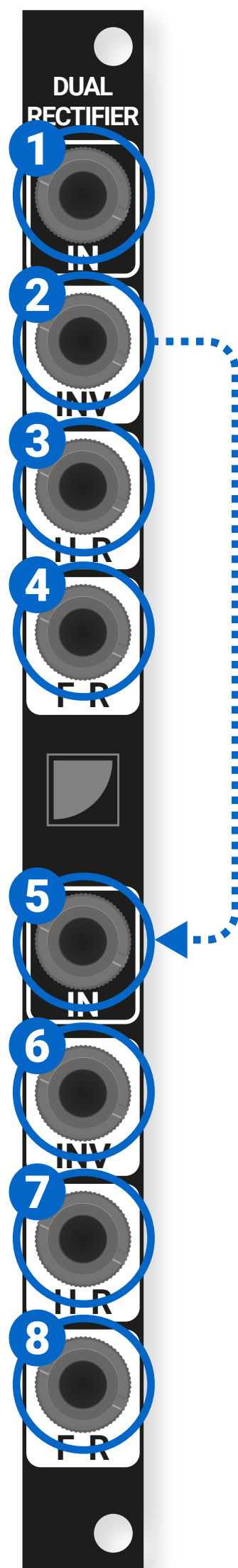
7
Check that the module work fine, else please contact us.

8
You can screw you module on your rack.

DISCLAIMER
All our modules are secured against reversed power connection, however plugging you module backward may damage you power supply or other modules installed in your rack.
Backward connection are not covered by our warranty.

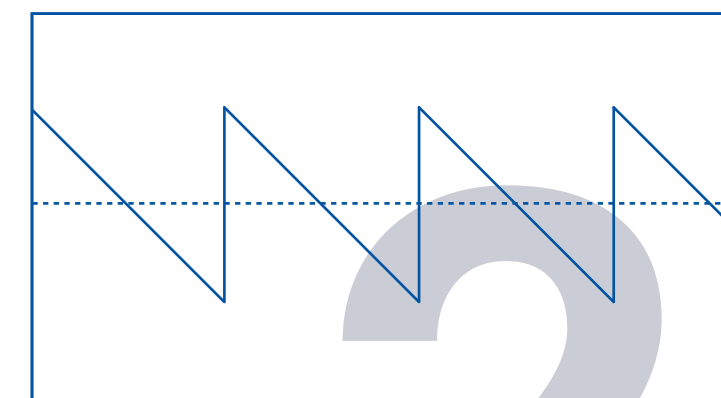
OVERVIEW

FRONT PLATE



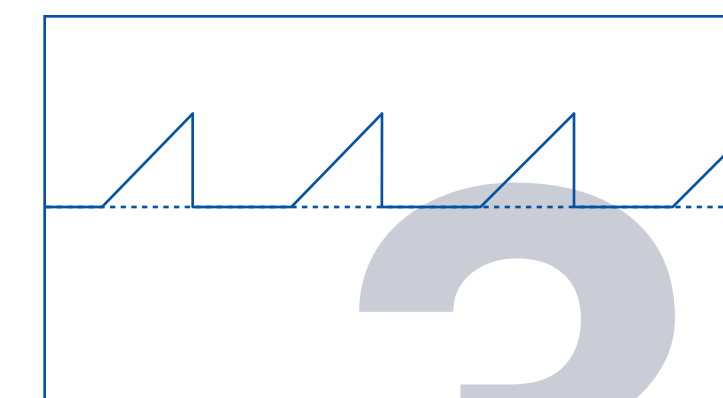
INPUT 1

Plug in input 1 the signal you want to process.



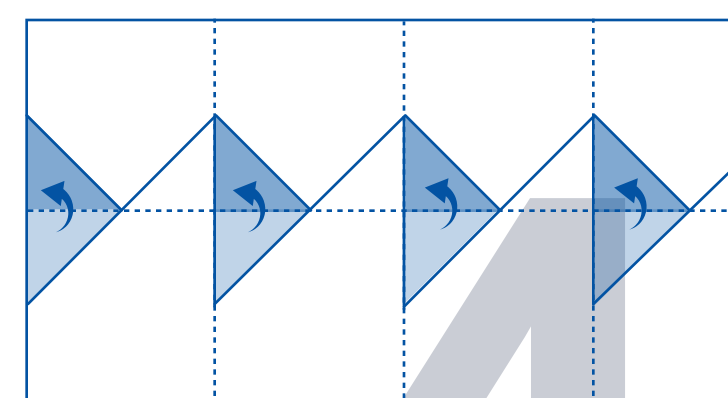
INVERTER 1

Inverted copy of input 1



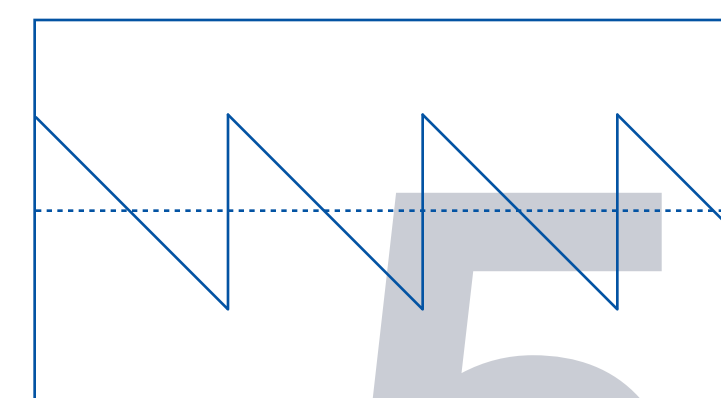
HALF RECTIFIED 1

Half rectifier only output input 1 signal above 0V.



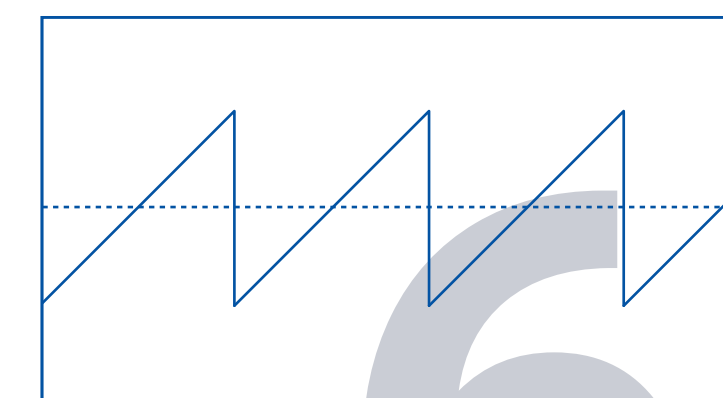
FULL RECTIFIED 1

Full rectifier output "fold" input 1 signal below 0V. If case of a saw, the full rectified signal will be a triangle.



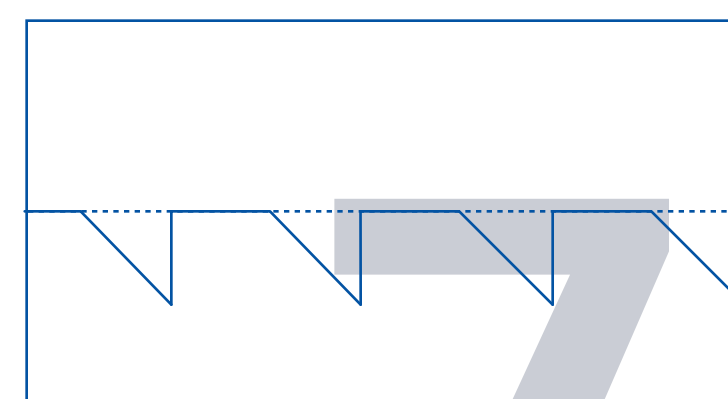
INPUT 2

Plug in input 2 the signal you want to process. if nothing is plug into input 2 it's normaled to input1 inverted output.



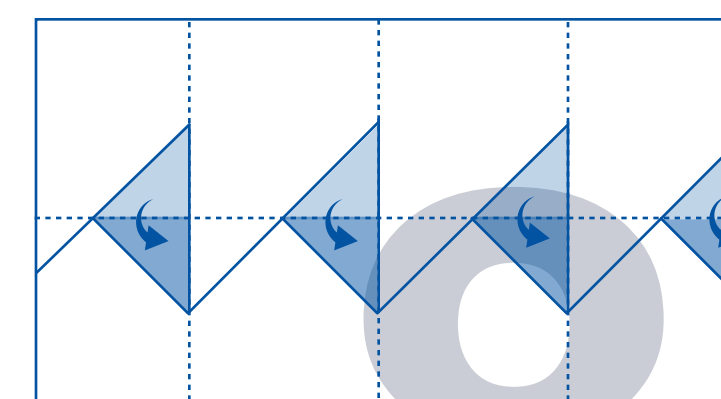
INVERTER 2

Inverted copy of input 2



HALF RECTIFIED 1

Half rectifier only output input1 signal below 0V.



I-FULL RECTIFIED 2

Inverted Full Rectifier output "fold" input 2 signal above 0V. If case of a saw, the inverted full rectified signal will be a triangle.

GENERAL SPECIFICATIONS

PANEL WIDTH : 2HP

MODULE DEPTH : 20mm

POWER CONSUMPTION :

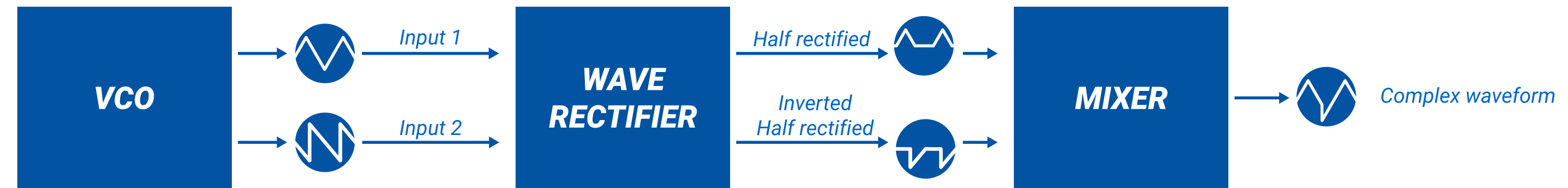
+12V : 15mA

-12V : 15mA

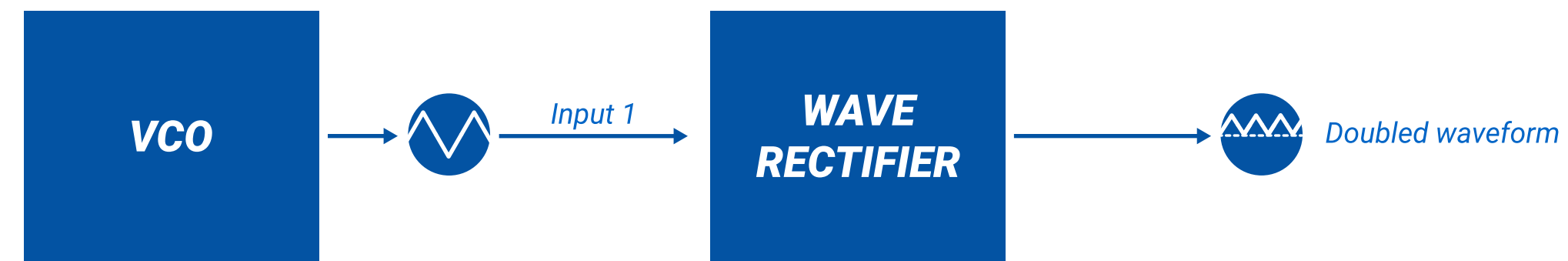
+5V : 0mA

PATCH IDEAS

COMPLEX WAVEFORM



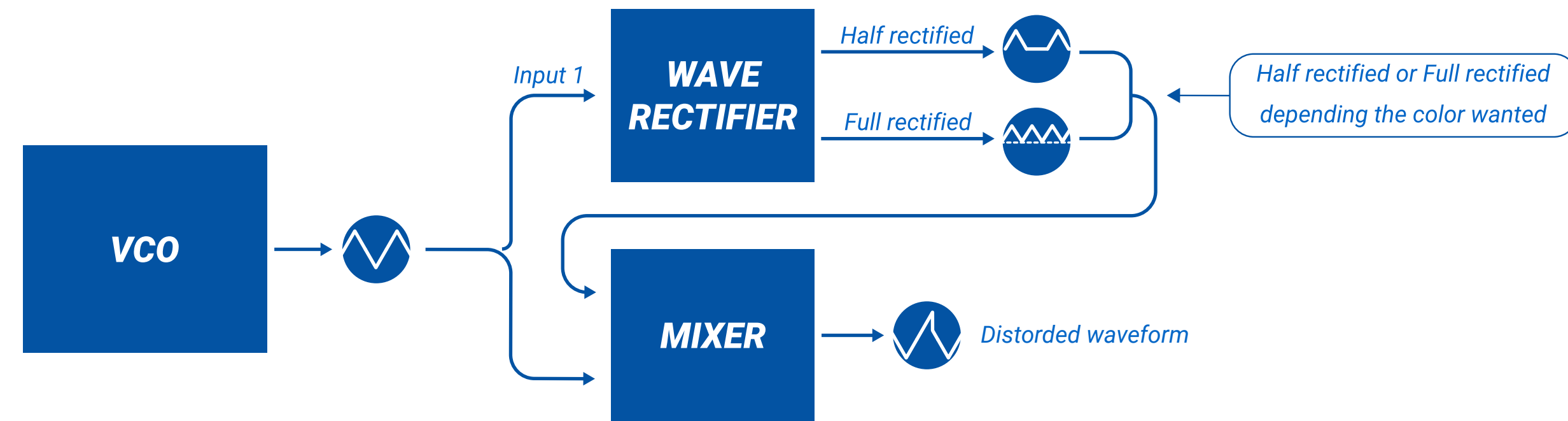
TRIANGLE DOUBLER



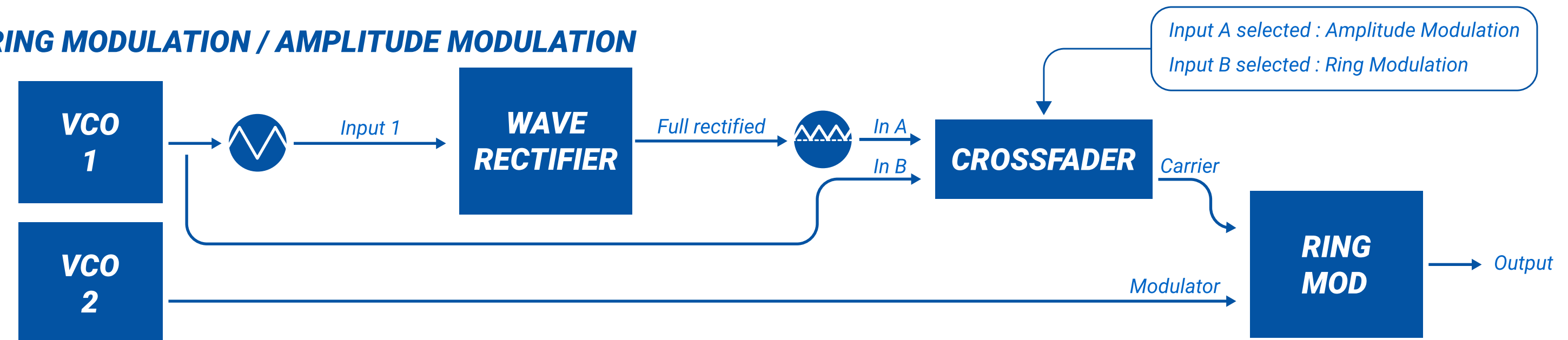
ENVELOPE FOLLOWER



PATCH IDEAS



RING MODULATION / AMPLITUDE MODULATION



CLOCK DOUBLER



WARRANTY

BLACK NOISE guarantees its products to be free of defects in materials or construction for a period of two years from the date of purchase.

Malfunction resulting from wrong power supply voltages, backwards or reversed eurorack bus board cable connection, abuse of the product or any other causes determined by *BLACK NOISE* to be the fault of the user are not covered by this warranty, and normal service rates will apply.

During the warranty period, any defective products will be repaired or replaced, at the option of *BLACK NOISE*, the postage to *BLACK NOISE*-customer service is on the customer. The return of your module is on us.