

Soundgear

By setting Neptune's output channel limiters you can prevent your amplifier from clipping, or limit the maximum level of signal that can be fed to the amplifier, consequently limiting the maximum output level of the amplifier. This is useful when driving low power speakers with high power amplifiers.

For maximum safety it is recommended to use the shortest attack setting (0.3ms) and the longest release setting (5000ms), this effectively results in a brick wall limiter.

Please note, all amplifier gains (input attenuators) should be fully open / clockwise.

Below are settings tables that will allow you correctly limit amplifier power output using the Neptune's limiters.

For amplifiers with 1.44V input sensitivity:

Set Neptune limiter to	To limit amplifier output to
+5.5dB	Full power / prevent clipping
+4.5dB	79% power
+3.5dB	63% power
+2.5dB	50% power
+1.5dB	40% power
+0.5dB	32% power
-0.5dB	25% power

For amplifiers with 1.3V input sensitivity:

Set Neptune limiter to	To limit amplifier output to
+4.5dB	Full power / prevent clipping
+3.5dB	79% power
+2.5dB	63% power
+1.5dB	50% power
+0.5dB	40% power
-0.5dB	32% power
-1.5dB	25% power

For amplifiers with 1V input sensitivity:

Set Neptune limiter to

- +2.5dB
- +1.5dB
- +0.5dB
- 0.5dB
- 1.5dB
- 2.5dB
- 3.5dB

To limit amplifier output to

- Full power / prevent clipping
- 79% power
- 63% power
- 50% power
- 40% power
- 32% power
- 25% power

For amplifiers with 0.77V input sensitivity:

Set Neptune limiter to

- 0.5dB
- 1.5dB
- 2.5dB
- 3.5dB
- 4.5dB
- 5.5dB
- 6.5dB

To limit amplifier output to

- Full power / prevent clipping
- 79% power
- 63% power
- 50% power
- 40% power
- 32% power
- 25% power

If your amplifier has switch-able input sensitivity then it is recommended to set it to 1.44V and use the 1.44v table.