



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

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

To limit amplifier output to

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

For amplifiers with 1.3V input sensitivity:

Set Neptune limiter to

+4.5dB
+3.5dB
+2.5dB
+1.5dB
+0.5dB
-0.5dB
-1.5dB

To limit amplifier output to

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

For amplifiers with 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.