

**MONO CLASS\_D AMPLIFIERS**

by M. Masini, L. Pagotto

The typical shape of the THD vs Pout of a class-D amplifier is the following:

The Dead zone step of the THD vs Pout plot happens when the average output current  $I_o$  is greater than the ripple current  $I_{ripple}$ . From this point of view the ripple current has a role similar to the bias current in a class-AB amplifier: the higher is the ripple current (the bias current in AB stage) the lower is the dead zone distortion (the lower is the cross-over distortion).

