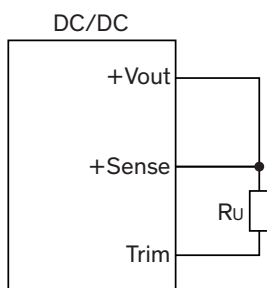## Output Voltage Adjustment

This feature allows increasing and decreasing the output voltage by +10% and −20%. This is accomplished by connecting an external resistor between the Trim pin an either the +Sense or -Sense pin. The resulting external Trim resistor is specified in Ohm and needs to be at least 1/8 Watt of rated power.

For trimming up, it must be assured that max. output power is not exceeded.

This method is applicable for the following series:
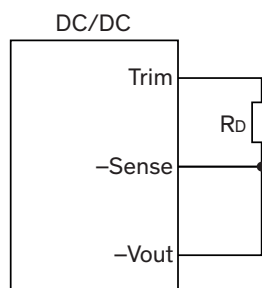TEP 40UIR / TEP 60UIR / TEP 100UIR

Connection of trim up resistor

Connection of trim down resistor

Trim up equation

$$R_U = \left(\frac{5.11 \cdot V_{OUT} \cdot (100 + \Delta\%)}{1.225 \cdot \Delta\%} - \frac{(511 + 10.22 \cdot \Delta\%)}{\Delta\%} \right) k\Omega$$

Trim down equation

$$R_D = \left(\frac{511}{\Delta\%} - 10.22 \right) k\Omega$$

For example: Trim up model TEP 60-3611UIR with ΔU = 10 % to output voltage of Uout,up = 5.5 V

$$R_U = \frac{5.11 \cdot V_{OUT} \cdot (100 + \Delta\%)}{1.225 \cdot \Delta\%} - \frac{(511 + 10.22 \cdot \Delta\%)}{\Delta\%} = \frac{5.11 \cdot 5 \cdot (100 + 10\%)}{1.225 \cdot 10\%} - \frac{(511 + 10.22 \cdot 10\%)}{10\%} = 168.1 \; k\Omega$$