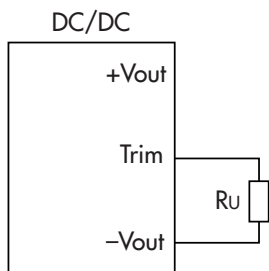


Output Voltage Adjustment

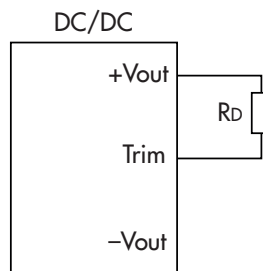
Output voltage is adjustable by connecting an external resistor between the Trim pin and either the +Sense or -Sense pins. With an external resistor between the Trim and -Sense pin, the output voltage set point increases. With an external resistor between the Trim and +Sense pin, the output voltage set point decreases. Maximum output deviation is +10% inclusive of remote sense. The value of external resistor can be obtained by equation below. The external TRIM resistor needs to be at least 1/16W of rated power.

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

Connection of trim up resistor



Connection of trim down resistor



Trim up equation

$$R_U = \frac{G \cdot L}{(U_{out,up} - L - K)} - H$$

Trim down equation

$$R_D = \frac{(U_{out,down} - L) \cdot G}{(U_{out,nom} - U_{out,down})} - H$$

Trim constants

Single models	G	H	K	L
THM x-xx11(WI)	5110	2050	2.5	2.5
THM x-xx12(WI)	10000	5110	9.5	2.5
THM x-xx13(WI)	10000	5110	12.5	2.5
THM x-xx15(WI)	56000	13000	21.5	2.5

For example: Trim up model THM x-xx11 with $\Delta U = 10\%$ and $V_{out\ nominal} = 5\text{ VDC}$

$$R_U = \frac{G \cdot L}{(U_{out,up} - L - K)} - H = \frac{5110 \cdot 2.5}{(5.5 - 2.5 - 2.5)} - 2050 = 23500\ \Omega$$