## Output Voltage Adjustment

This feature allows increasing and decreasing the output voltage of TPP 30A-D and TPP 30-D series. This is accomplished by connecting an external resistor between the Trim pin an either the +Vout or -Vout pin. The resulting external Trim resistor is specified in Ohm and needs to be at least 1/16 Watt of rated power.

For trimming up, please assure max. output power is not exceeded.

Connection of trim up resistor
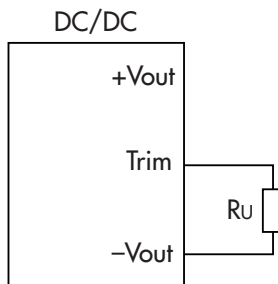
Connection of trim down resistor
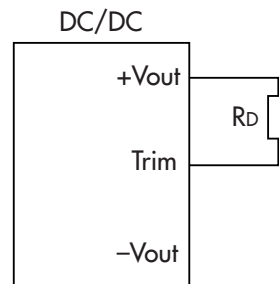
Trim up equation

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

Trim down equation

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

Trim constants				
Models	**G**	**H**	**K**	**L**
TPP 30-103(A)-D	5100	2050	0.8	2.5
TPP 30-105(A)-D	7500	2000	2.5	2.5
TPP 30-109(A)-D	33000	2000	6.5	2.5
TPP 30-112(A)-D	51000	2000	9.5	2.5
TPP 30-115(A)-D	68000	2000	12.5	2.5
TPP 30-124(A)-D	130000	2000	21.5	2.5
TPP 30-136(A)-D	220000	2000	33.5	2.5
TPP 30-148(A)-D	620000	2000	45.5	2.5

For example: Trim up model TPP 30-112A-D with ΔU = 10 % to output voltage of Uout,up = 13.2 V

$$R_U = \frac{G \cdot L}{\left(U_{out,up} - L - K\right)} - H = \frac{51000 \cdot 2.5}{(13.2 - 2.5 - 9.5)} - 2000 = 104.25 k\Omega$$