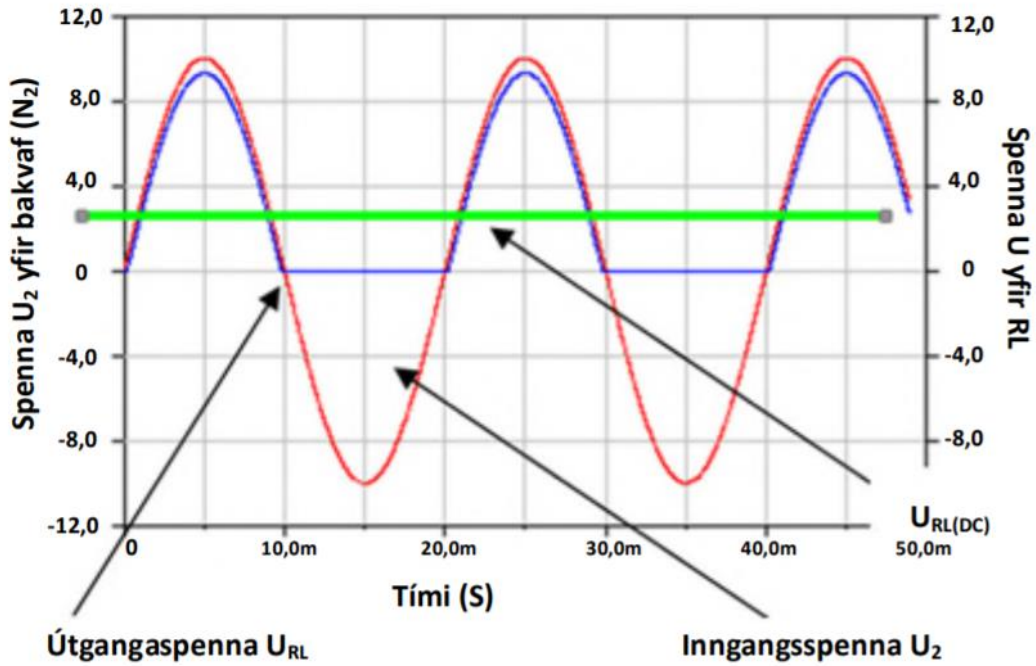


Vafningshutfall

$$U_2 = \frac{N_2}{N_1} \cdot U_1$$

$$U_{RL(t)} = U_{2(t)} - 0,7V$$

$$U_{2(t)} = \sqrt{2} \cdot U_2$$



Jafnspennuígildi

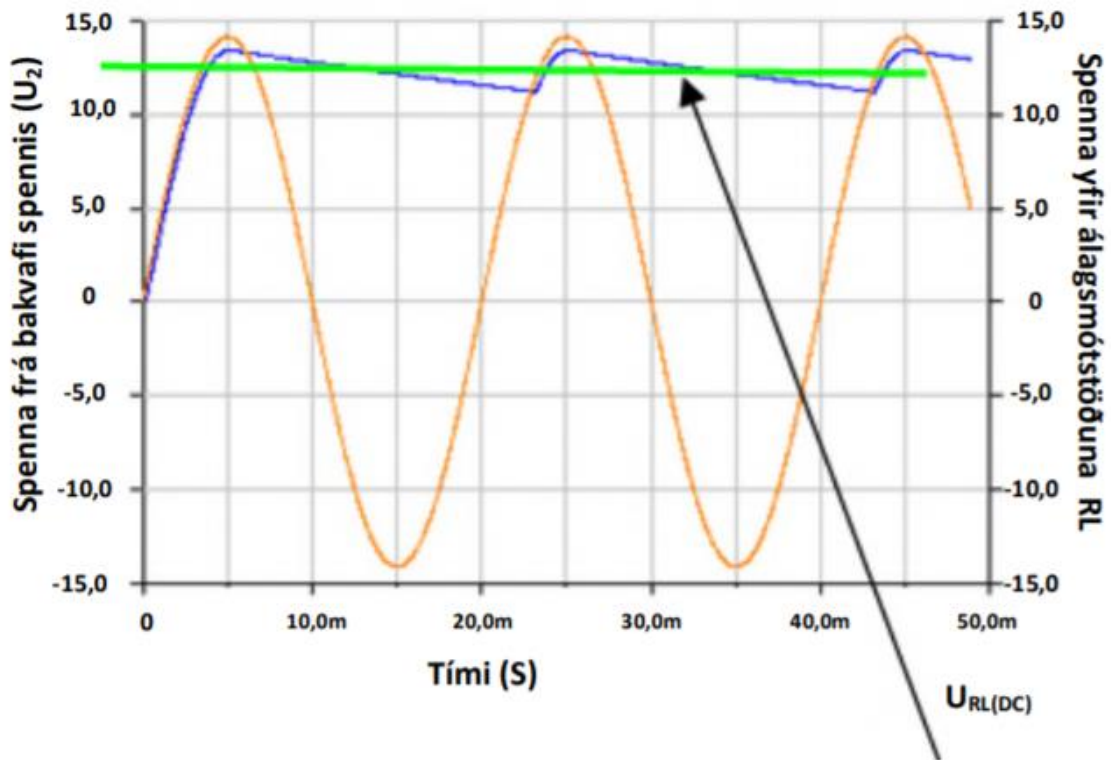
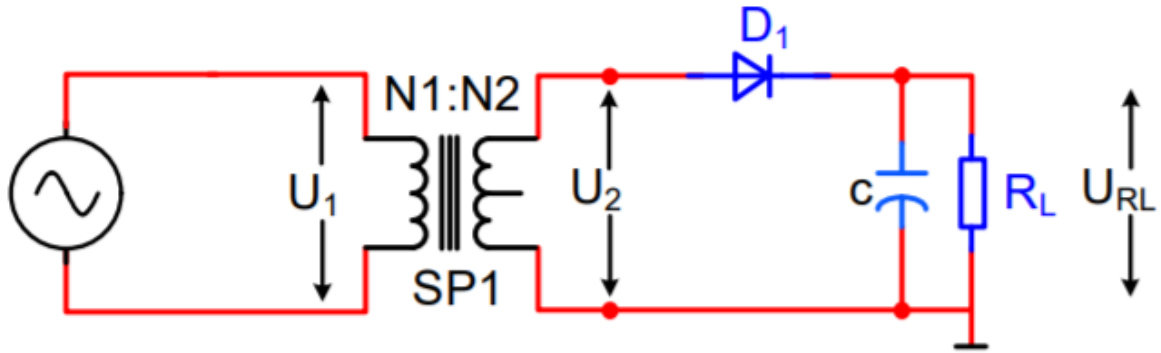
$$U_{RL(dc)} = \frac{U_{RL(t)}}{\pi}$$

Topp í topp gáruspenna

$$U_{RL(gára)} = 1,2 \cdot U_{RL(dc)}$$

Díóðan þarf að þola bakspennu

$$U_{PIV} > U_{2(t)}$$



Jafnspennuígildi

$$U_{RL(DC)} = \frac{U_{RL(t)}}{\left[1 + \frac{1}{2 \cdot f \cdot R_L \cdot C} \right]}$$

Gáruspennan

$$U_{R_L(gára(t))} = U_{R_L(t)} - U_{R_L(dc)}$$

Gáruspenna (rms)

$$U_{R_L(gára(rms))} = \frac{U_{R_L(gára(t))}}{\sqrt{2}}$$

Gáruspennuhlutfall

$$r[\%] = \left[\frac{U_{R_L(gára(rms))}}{U_{R_L(dc)}} \right] \cdot 100\%$$

Bakspenna sem díóða þarf að þola

$$U_{PIV} = 2 \cdot U_{2(t)}$$