

Ex 2.7

$V_{in} = 1500V \rightarrow V_{out} = 1000V$ (on)

$P = 1000W$ (approx) $C_L = 844\mu F$ $\rightarrow f_{out} = 10.6Hz$

Assume ideal capacitor. Let D, T be the output
 ($T = T_{on}, T_{off}$). We know that $D + T = 1$ & $T_{on} - T_{off} = \frac{1}{f_{out}}$

$$V_{out} = \frac{1}{T_{off}} D T_{on} \rightarrow \text{let } \boxed{\frac{T_{on}}{T_{off}} = \frac{D}{1-D} = \frac{1}{D}} \quad (\text{assuming})$$

Then when

$$V_{in} = 500V \rightarrow D_{min} = D = \frac{1}{5} \quad \left[\frac{1}{5} < D < \frac{1}{2} \right]$$

$$V_{in} = 1000V \quad D = \frac{1}{2}$$

Maybe let $D_{avg} = \text{avg duty level} = \frac{1000V}{500V} = 2.0$

$$L = \frac{V_{in} T_{off}}{D_{avg}} \quad L = \frac{[V_{in} (\frac{1}{D}) - V_{out}] T_{off} T_{on}}{D_{avg}}$$

$$L > \frac{500 T_{on}}{D_{avg}} \quad (\text{for either } V_{in} = 1000V \text{ or } 500V)$$

$$> \frac{500}{6 (1000)(2)} = \underline{\underline{4.17\mu H}}$$

$$C > \frac{T_{off} T_{on}}{4 V_{in}}$$

worst case $D_{avg} = 2.0$ (on)
 $= 1000V$
 (on - worst)

$$C > \frac{2.0}{(20V) 10000} = \underline{\underline{6.25\mu F}}$$

Krein Power Electronics Solutions Manual

Patrick Vollmar



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