

$$R_L = 100\Omega$$

$$f = 50\text{Hz}$$

$$C = 470\mu\text{F}$$

$$\text{Efficiency } \eta = P_{DC} / P_{AC} \Rightarrow (I_{DC}^2 \cdot R_L) / [(I_{rms})^2 \cdot (R_L + R_f + R_s)]$$

Where $I_{rms} = I_M / \sqrt{2}$ and $I_M = V_M / (R_L + R_f + R_s)$

$$\text{Efficiency} = \eta \approx (V_{DC})^2 / (V_i \text{ rms})^2$$

$$\text{Regulation } \% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$$

Note: repeat the same procedure of HWR for calculating Regulation .

PROCEDURE:

1. Connections are made as shown in the circuit diagram
2. Switch on the AC power supply
3. Observe the wave form on CRO across the load resistor and measure the o/p amplitude and frequency.
4. Note down R_L , I_{DC} , V_{ODC} , V_{inac} , V_{oac} in the tabular column for different load resistances.
5. Calculate the ripple and efficiency and regulation for each load resistance.
6. Repeat the above procedure with filter capacitor.

TABULAR COLUMN:

Sl. No.	R_L	I_{DC}	V_O (DC)	V_{IN} (AC)	V_O (AC)	Ripple	Efficiency	Regulation

(Without filter) Ripple = $r_{\text{theoretical}} = 0.48$ $r_{\text{practical}} = \underline{\hspace{2cm}}$

(With Filter) $r_{\text{theoretical}} = 1 / (4\sqrt{3} f C R_L) = 0.06$ for $C = 470\mu\text{F}$, $r_{\text{practical}} = \underline{\hspace{2cm}}$

Ripple factor = $r_{\text{practical}} = V_{\text{orms}} / V_{DC}$

Efficiency = $\eta_{\text{theoretical}} = 81.2\%$ $\eta_{\text{practical}} \approx (V_{DC})^2 / (V_i \text{ rms})^2$

Regulation = $\% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$

Where V_{NL} = no load voltage = voltage across output by removing load resistance.

V_{FL} = Full load voltage = Voltage across output with load resistance.

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