

SINGLE PHASE CIRCUITS

① Alternating current [A.C] through pure Resistance circuit



→ pure resistive circuit.

Consider a simple circuit of a pure resistance 'R' Ohms, connected across alternating voltage $e = E_m \sin wt$, and 'i' is an alternating current flows through it. according to ohm's law;

$$i = \frac{e}{R} = \frac{E_m \sin wt}{R} \left(\frac{E_m}{R} \right) \sin wt$$

$$i = I_m \sin wt, \text{ where } I_m = \left(\frac{E_m}{R} \right)$$

This is the equation giving instantaneous value of current comparing this with standard equation

$$i = I_m \sin(\omega t + \phi)$$

$$I_m = \left(\frac{E_m}{R} \right) \text{ and } \phi = 0$$

So, maximum value of alternating current, 'i' is $I_m = \frac{E_m}{R}$ $\phi = 0$. it indicates that 'current is in phase with the voltage'.



In purely resistive circuit, the current and the voltage applied are in phase with each other.

→ 'power':

The instantaneous power in a.c circuits can be obtained by taking product of the instantaneous values of current and voltage

$$P = e i$$

$$P = (E_m \sin wt) (I_m \sin wt)$$

$$= E_m I_m \sin^2 wt$$

$$= E_m I_m \left(\frac{1 - \cos 2\omega t}{2} \right)$$

Basic Electrical Engineering Vtu Notes

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