



Module 15: Assignment Charging Infrastructure

Problem Statement:

As an electrical engineer tasked with evaluating the performance of a household appliance operating on a single-phase AC power supply, your task is to determine key parameters such as real power (P), apparent power (S), and power factor (PF).

Objective:

Evaluate the performance of the household appliance by calculating the key parameters with given data.

Tasks to be Performed:

1. Real Power (P)
2. Apparent Power (S)
3. Power Factor (PF)

Given,

Voltage = 230 V

Current = 8 A

Phase Angle = 45°