

35 A sinusoidally-alternating voltage supply at 50 Hz connected across a load resistor of $200\ \Omega$ delivers a peak current of 2.0 A. The frequency of the supply is doubled to 100 Hz.

What is the mean power dissipated in the load resistor at the higher frequency?

A 200 W

B 400 W

C 800 W

D 1600 W

36 The graph shows the variation of maximum kinetic energy E_k with frequency f for