

- 28** When an alternating current, $I = I_0 \sin \omega t$, passes through a resistor, the mean power dissipated in the resistor is P . The peak value of the alternating current is then changed to $2 I_0$ and the frequency is halved.

What is now the mean power dissipated in the resistor?

A P

B $\sqrt{2} P$

C $2P$

D $4P$