

- 25** When a light bulb is connected across a sinusoidal alternating current source of peak voltage 170 V , the mean power dissipated is 40 W . Two such light bulbs are now connected in series to the electrical mains of $220\text{ V}_{\text{r.m.s.}}$

What would be the total mean power dissipated?

- A** 34 W
- B** 67 W
- C** 80 W
- D** 130 W