

12 The drag force acting on a car moving at velocity v through still air is proportional to v^2 .

When the car is travelling at 20 ms^{-1} on a level road, the power required to overcome the drag force is 4800 W.

What power is required when the car travels at 25 ms^{-1} ?

A 6000 W

B 7500 W

C 8000 W

D 9400 W