

18 A car of mass 1800 kg accelerates along a horizontal road so that its speed increases from 20 m s^{-1} to 25 m s^{-1} in a time of 5.4 s .

What is the average useful power output of the car's engine?

A 4.2 kW

B 38 kW

C 120 kW

D 1100 kW

19 A variable force is applied to ensure that a constant power is supplied to a train