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The r.m.s. value of an alternating sinusoidal current in a load resistor is 2.0 A and the mean power dissipated in the resistor of resistance  $R$  is the same as that of a steady current  $I$  in another resistor of resistance  $2R$ .

What is the value of the steady current  $I$ ?

**A**

0.71 A

**B**

1.4 A

**C**

2.0 A

**D**

4.0 A