

19. An AC power supply of negligible internal resistance is connected to an $8.0\ \Omega$ resistor. The rms voltage of the power supply is $5.0\ \text{V}$. The peak power dissipated in the $8.0\ \Omega$ resistor is

- A $0.44\ \text{W}$
- B $0.63\ \text{W}$
- C $1.4\ \text{W}$
- D $3.1\ \text{W}$
- E $6.3\ \text{W}$.