

32 A power supply is connected to a component by connecting wires of total resistance 4.9Ω .

The power supply has an output power of 3.6 W and a terminal potential difference of 12 V .

How much thermal energy is dissipated in the connecting wires in a time of 1.0 hour ?

A 0.44 J

B 29 J

C 1.6 kJ

D 11 kJ