

Question

As we know the power is the energy divided by the time, so, we can see that energy is the power multiplied by the time. So, we will have:

$$E = P \cdot t = 100 \left(\frac{J}{\text{sec}} \right) \cdot 1800(\text{sec}) = 180000(J).$$

Answer: the energy is 180000 Joules.