

31.16. Solve: Making use of the conversions $1 \text{ J/1 s} = 1 \text{ W}$ and $1 \text{ kW} = 1000 \text{ J/s}$, we can write

$$1 \text{ kWh} = (1000 \text{ J/s})(3600 \text{ s}) = 3.6 \times 10^6 \text{ J}$$