

Answer on Question #62687, Physics / Mechanics | Relativity

8. Determine the number of kilowatt-hours (kWh) for each of the following energy consumption
- 2500 W for 2h
 - 100,000 W for 5h

Solution:

$$Power = \frac{Energy}{Time}$$

or

$$Energy = Power \times Duration\ of\ Usage\ (Time)$$

a)

$$Energy = 2500\ W \times 2\ h = 5000\ Wh = 5\ kWh$$

b)

$$Energy = 100,000\ W \times 5\ h = 500,000\ Wh = 500\ kWh$$

Answer: a. 5 kWh; b.

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