

$$60 \text{ mph} = 26.67 \text{ m/sec}$$

$$20 \text{ mpg} = 8443.27 \text{ m/L}$$

In 1 sec:

$$V(\text{fuel}) = \frac{26.67}{8443.27} = 0.0032 \text{ L}$$

$$Q = 0.0032 * 0.84 * 47\,302 = 125.5 \text{ kJ}$$

$$P = 125.5 \text{ kW}$$

Answer:

125.5 kW