

Ejercicio n° 19. T1.

Datos

$$V = 220 \text{ V.}$$

$$t = 4 \text{ h.}$$

$$I = 6 \text{ A.}$$

$$E_{\text{kwh}} = ?$$

(1 mes).

$$a) E = P \cdot t = V \cdot I \cdot t = 220 \cdot 6 \cdot 4 = 5280 \text{ Wh} =$$

$$E_{1 \text{ mes}} = 5280 \cdot 30 = 158.400 \text{ Wh} = \underline{\underline{158'4 \text{ kWh}}}$$

$$b) P = V \cdot I = 220 \cdot 6 = 1320 \text{ W.}$$

$$1320 \text{ W} = 1320 \frac{\text{J}}{\text{s}} \cdot \frac{1 \text{ cal}}{4'18 \text{ J}} \cdot \frac{1 \text{ kcal}}{10^3 \text{ cal}} = 0'31578 \frac{\text{kcal}}{\text{s}}$$

$$0'31578 \frac{\text{kcal}}{\text{s}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = \underline{\underline{1136'84 \text{ kcal}}}$$