30. Recognizing that the force in the cable must equal the total weight (since there is no acceleration), we employ Eq. 7-47:

$$P = Fv\cos\theta = mg\left(\frac{\Delta x}{\Delta t}\right)$$

where we have used the fact that $\theta=0^\circ$ (both the force of the cable and the elevator's motion are upward). Thus,

$$P = (3.0 \times 10^3 \,\mathrm{kg}) \left(9.8 \,\mathrm{m/s}^2\right) \left(\frac{210 \,\mathrm{m}}{23 \,\mathrm{s}}\right) = 2.7 \times 10^5 \,\,\mathrm{W} \,\,.$$