## Question 36857

The power, dissipated by resistor is $P=I U$, or using Ohms law $I=\frac{U}{R}$,

$$
P=\frac{U^{2}}{R}=\frac{(12 \mathrm{~V})^{2}}{4 \text { Ohm }}=36 \mathrm{~W} .
$$

