

Electric Circuit Solutions

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$P_2 = (1.25 \text{ A})^2(30 \text{ ?})$ $P_2 = 46.875 \text{ W}$. $P_3 = V^2 / R_3$. $P_3 = (62.5 \text{ V})^2 / (50 \text{ ?})$ $P_3 = 78.125 \text{ W}$. In a series circuit, the element with the greatest resistance consumes the most power. Follow the rules for parallel circuits. Resistances in parallel combine according to the sum-of-inverses rule. 1.

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