

For parallel circuits:

	R_1	R_2	R_3	Total	
E	→	→	→	→ Equal	Volts
I	→	→	→	→ Add	Amps
R	→	→	→	→ Diminish	Ohms
P	→	→	→	→ Add	Watts

$$E_{\text{total}} = E_1 = E_2 = E_3$$

$$I_{\text{total}} = I_1 + I_2 + I_3$$

$$R_{\text{total}} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$$

$$P_{\text{total}} = P_1 + P_2 + P_3$$