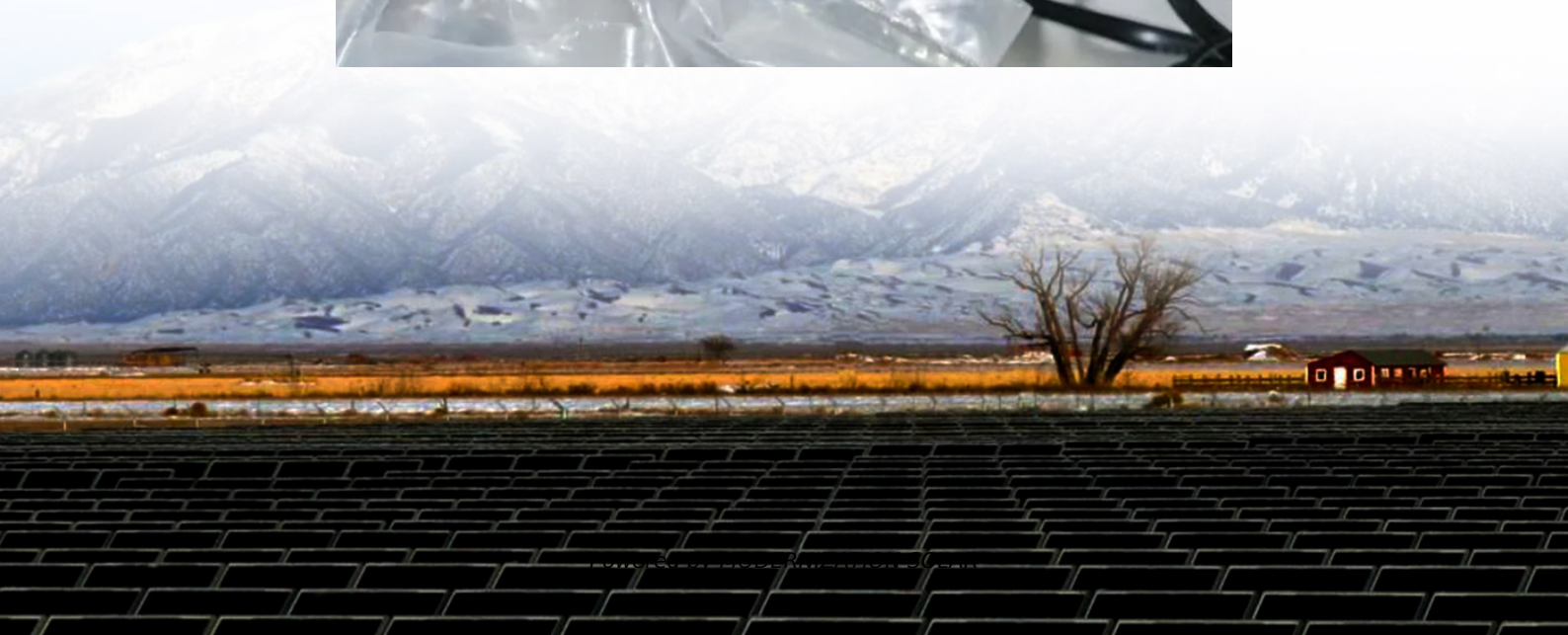


How big a resistor should be connected to the inverter power





Overview

Can a resistor be used at any combination of voltage and current?

A resistor can be used at any combination of voltage (within reason) and current so long as its “Dissipating Power Rating” is not exceeded with the resistor power rating indicating how much power the resistor can convert into heat or absorb without any damage to itself.

How many watts is a 5V resistor?

$P = 5V \times 0.05A = 0.25W$ With a safety factor of $\times 2$: Use a 0.5-watt or preferably a 1-watt resistor. The resistor power rating is the maximum power a resistor can dissipate without overheating. Common ratings include: Always select a resistor with a power rating above the calculated dissipation to avoid thermal stress.

How do I choose a resistor wattage?

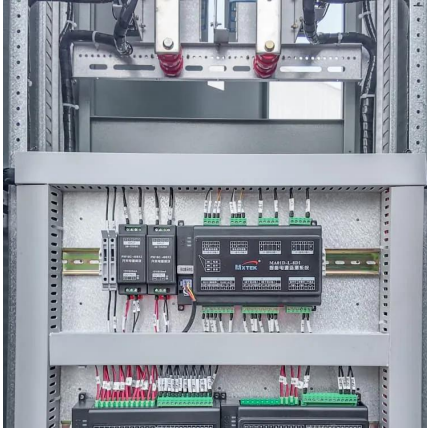
Common ratings include: Always select a resistor with a power rating above the calculated dissipation to avoid thermal stress. Always include a margin: Choose a resistor wattage at least twice the calculated power. Watch for voltage surges: Transients can exceed ratings.

How many watts can a resistor pass?

Let's say a resistor drops 5 volts and passes 50 mA (0.05 A): $P = 5V \times 0.05A = 0.25W$ With a safety factor of $\times 2$: Use a 0.5-watt or preferably a 1-watt resistor. The resistor power rating is the maximum power a resistor can dissipate without overheating. Common ratings include:



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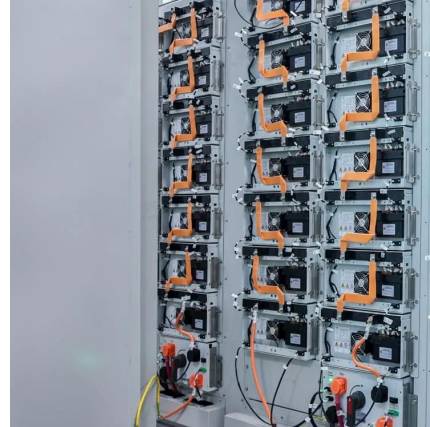


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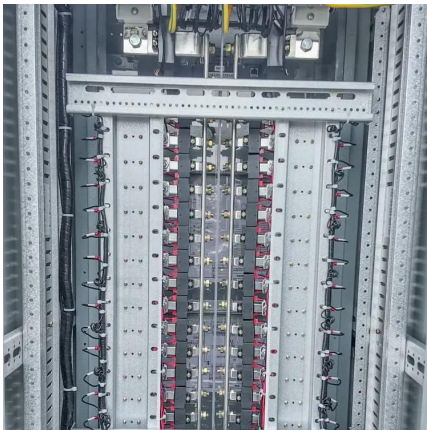
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