

# CIRCUIT THEORY

## WIT & WIL

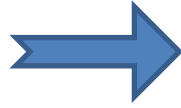
Why am I Teaching, What am I Teaching  
&

Why am I Learning, What am I Learning

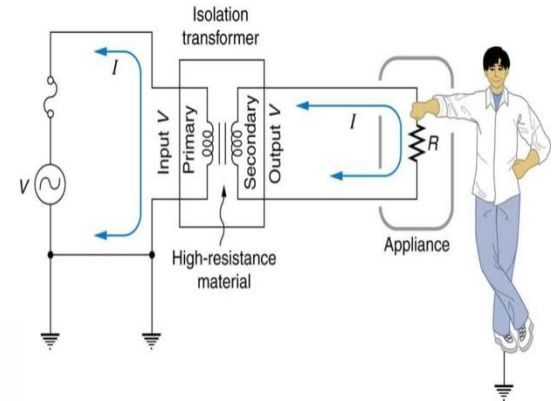
# Why am I teaching Circuit Theory?



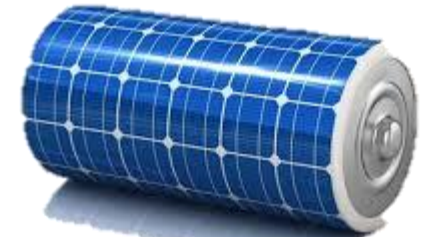
Selection of  
Panel rating



Conversion of DC to AC



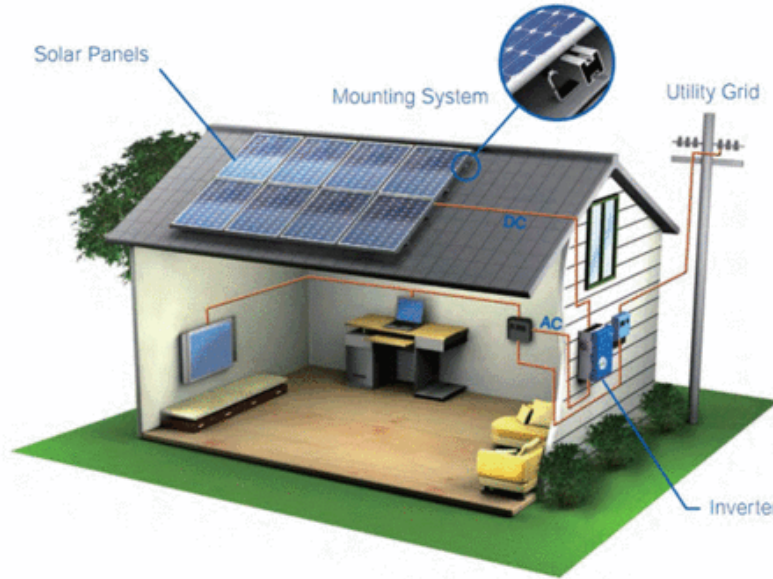
Isolation transformer



Energy storage system



Electric Loads

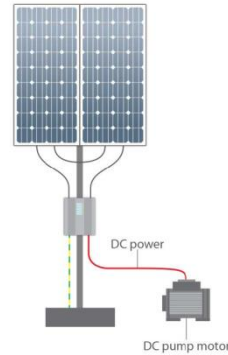


**Oh! How many solar panels is required to purchase to meet the load demand of my house?**

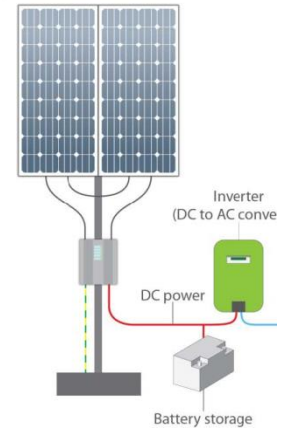
# Why am I learning Circuit theory?



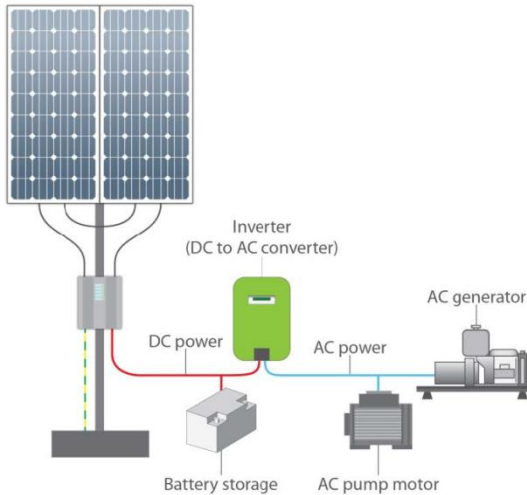
Calculation of power



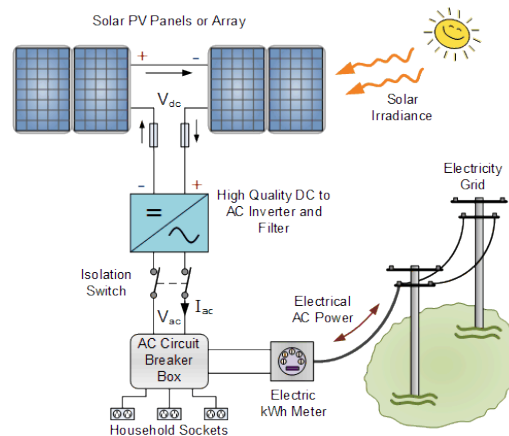
Can it be directly connected to load



Can it be stored



Can it be used for AC and DC loads

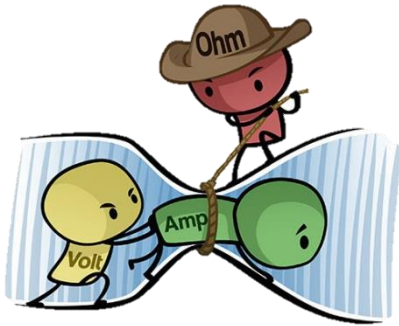


Can It be isolated from load

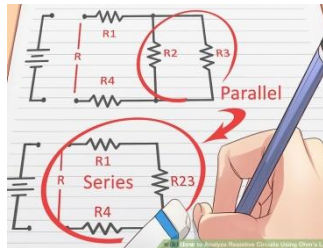


Can it be connected to grid

# What am I teaching



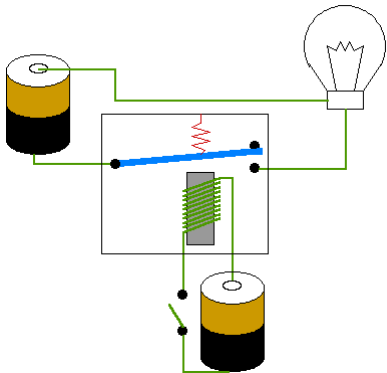
Electrical fundamentals



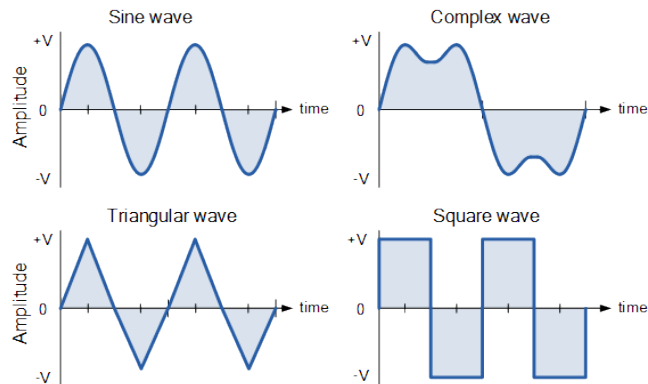
How to analyze circuit



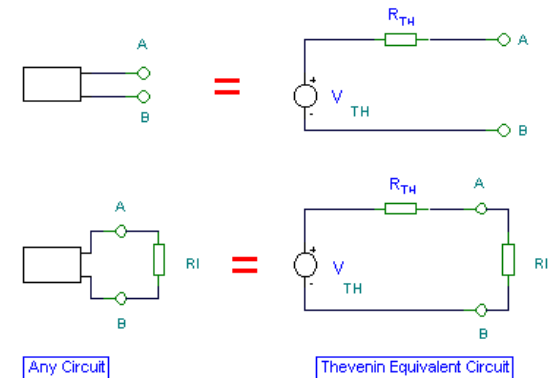
Trouble shoot problems



Magnetic circuits



AC circuits



Network theorems

# What am I learning

- Ohms law ,kirchoff's laws to analyze electric circuits
- Magnetic circuits to isolate the electrical circuits operating at different voltage/current levels.
- AC circuits to understand the behavior of circuit for different excitations
- Network Theorems to simplify the circuit analysis