

A PV Inverter

Components

- Active
- Passive

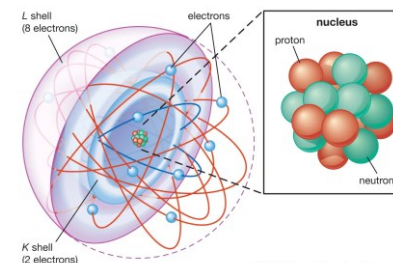
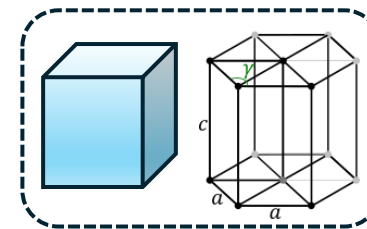
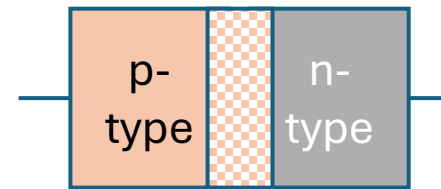
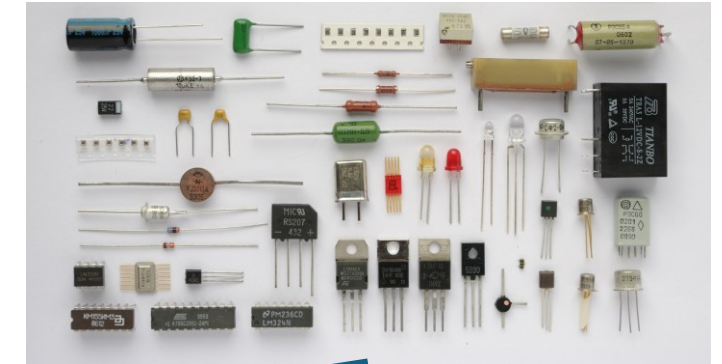
Semiconductors

P-N junctions

Energy bands

Crystal lattice

- Atoms
 - Electrons, protons, & neutrons



Active

Passive



Feature	Inductor	Capacitor
Stores	Magnetic energy	Electric energy
Reacts to	Change in current	Change in voltage
Impedance	$j\omega L$	$\frac{1}{j}\omega C$
Energy Formula	$\frac{1}{2} Li^2$	$\frac{1}{2} CV^2$