

DC power Supply.

“A direct current power supply is a device that converts AC to direct current or from one voltage to another.”

“The majority of DC power supplies are in form of wall adapter.

Small electronic devices such as cell phones, digital cameras, and portable music player.”

Internal power supplies.

The device internal power supplies convert AC voltage to DC voltage, which are subsequently utilized to power.

The device various element

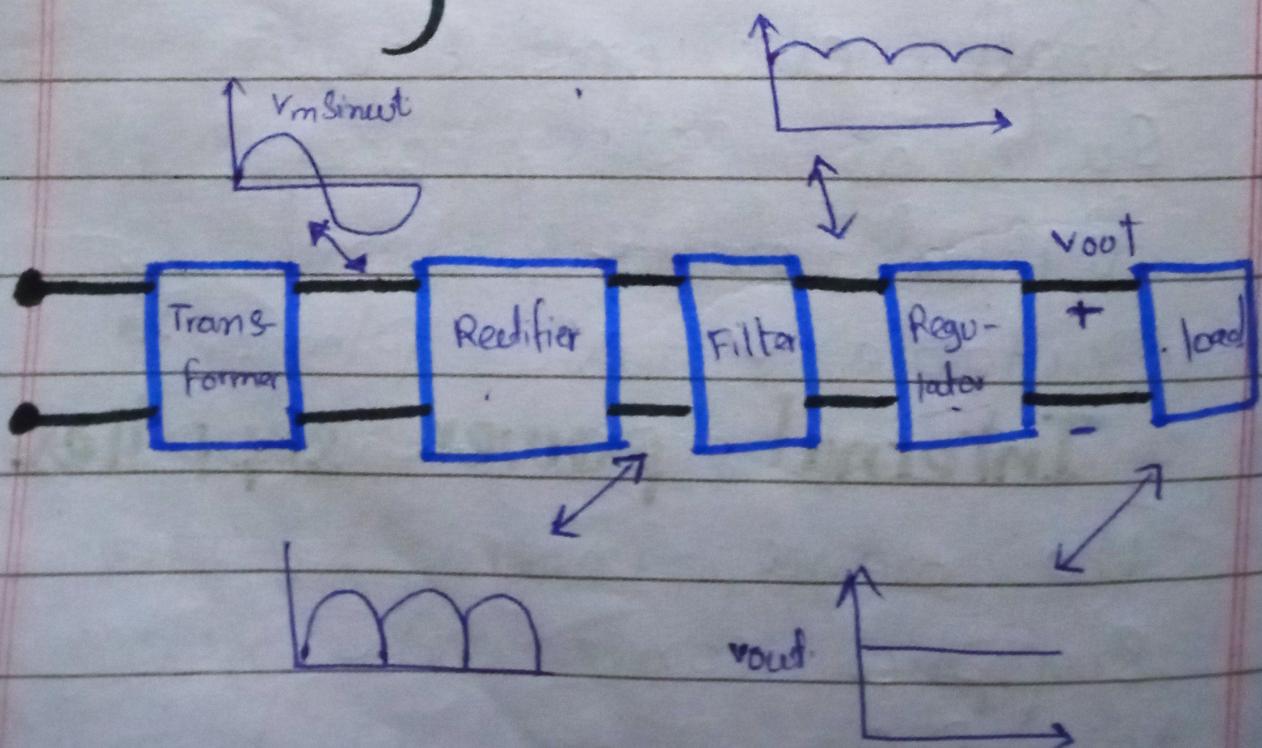
Basic Building Block of a regulated DC power:

Step down transformer

A rectifier

A DC filter

A regulator



Step down Transformer.

A step down transformer will step down the voltage from the ac main to the required voltage level.

Rectification:

Rectification is the next process it converts the AC voltage into Direct current or voltage. The input to rectifier is ac whereas its output is unidirectional pulsating DC.

Filtration:

Is the next process after rectification. The rectified voltage from rectifier

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is a pulsating DC have ripples which is removed by filter.

→ Regulation:

The ^{fixed} output voltage is maintained or created by regulator, irrespective of changes to the input voltage or load condition.

Voltage regulators keep the voltage from a power supply within a range that is compatible with other electrical component.