

ISOLATION TRANSFORMER

INTRODUCTION:

An isolation transformer is a transformer used to transfer electrical power from a source of alternating current (AC) power to some equipment (or) device while isolating the powered device from the power source usually for safety reasons.

HOW ISOLATION TRANSFORMER WORK:

Isolation transformers provide galvanic isolation between AC power lines (mains) and the powered device. That means there is not DC path between the two windings. They serve three main purposes:

- The first is isolating the secondary from ground (earth).
- The second is to provide step up or step down of line (mains) voltages.
- The third is reduce line noise being transmitted from the primary to the secondary or vice versa

PURPOSE OF ISOLATION TRANSFORMER:

Isolation transformers provide separation from power line ground connection to eliminate ground loops and inadvertent test equipment grounding.

APPLICATIONS:

Pulse Transformers:

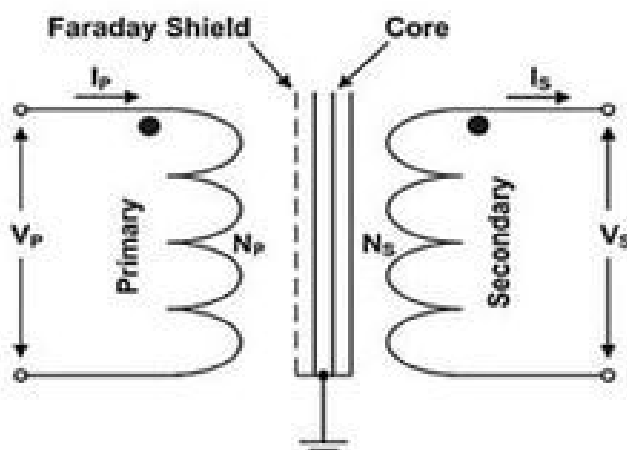
Some small transformers are used for isolation in pulse circuits.

Electronics Testing:

In electronics testing and servicing, an isolation transformer is a (under load) power transformer used for safety.

Supply of equipment at elevated potentials:

Isolation transformers are also used for the power supply of devices not at ground potential. An example is the Austin transformer for power supply of air-traffic obstacle warning lamps on radio antenna masts.



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