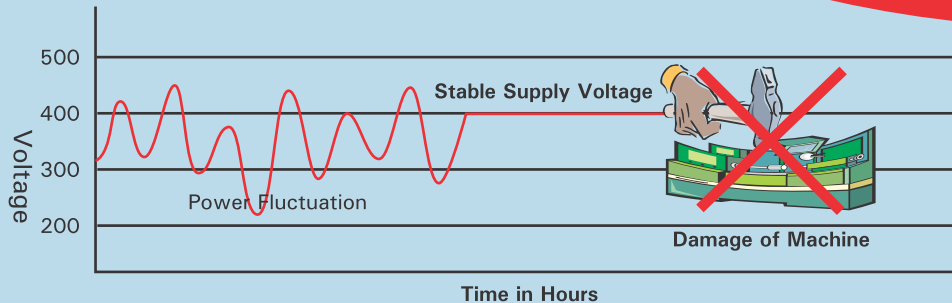




# ULTRA ISOLATION TRANSFORMER



## INTRODUCTION

**NIFA ELECTRONICS** Began outlining sound company framework, built on professional lines way back in 1991. **NIFA ELECTRONICS** has grown by leaps and bounds in exponential manner to become one of the major player in the field of POWER CONDITIONING, POWER MANAGEMENT & Allied Technical Services..



## BRIEF ABOUT ULTRA ISOLATION TRANSFORMER

Simple isolation transformer isolates one circuit from another circuit with common magnet circuit. Such a transformer exhibits proper working in electrical wiring circuits, low gain circuits, or insensitive instruments. However, such transformers fail while working with high gain circuits or sensitive instruments, because noise potential between the primary circuit and the ground affects the secondary circuit due to it's high capacitive resistive coupling between it's windings.

In normal practice, the faraday Shield, 'A grounded single turn of conducting foil', between windings is used to divert much of the primary noise to ground. But the noise can still couple with the secondary circuits because of the electrostatic field around the shield causing serious problems.

**Nitel** Ultra Isolation Transformer is designed to provide the solution to this problem. It uses unique multiple shielding technique, exhibits very low coupling capacitance and very high D.C. Galvanic isolation. It has only a fraction (about Ten Thousandth). The noise leakage of an ordinary transformer.

## APPLICATIONS

- Computer :** The Erratic behaviour of computer is generally due to the presence of spikes, transients or noise in the primary circuits. The Nitel Ultra Isolation Transformer eliminates these disturbances thereby guaranteeing error free operation of the computers.
- Sensitive instruments:** Usage of Nitel Ultra Isolation Transformer ensures accurate error free reliable readings by eliminating power line disturbances.
- Hospitals :** It prevents shock hazard to the operator or the patient by providing excellent D.C. Isolation it can be used with Diagnostic or therapeutic equipment.
- Equipment :** It ensures proper working of any sensitive, micro processor based equipment which get badly affected by line noise, spikes and disturbances.

## SPECIFICATIONS

- Input Voltage** : 115/230VAC + 10% Two windings In parallel or series.
- Output Voltage** : 115/230VAC. Up to 5kVA and 230 VAC over 5kVA. Two windings in parallel or series.
- Acceptable Line Frequency** : 47 to 53 Hz.
- Mode of Operation** : As step-down or step-up or 1:1 Isolation Transformer.
- Common Mode Noise Attenuation** : More than 100 dB.
- Coupling Capacitance** : Less than 0.005pF.
- DC Galvanic Isolation** : Over 1000m.ohms between any windings or windings to ground.
- Dielectric Strength** : 2500V AC for 2 minutes.
- Cooling** : Natural Air Cooling
- Load Regulation** : Within 3.5%

## SALIENT FEATURES

- Extremely low interwinding coupling capacitance.
- Filters powerline noise, spikes and transients
- Minimizes Common mode noise by over 110 dB, which would simply not be possible with a common transformer.
- High DC Galvanic Isolation
- Reduces transverse mode noise
- Latest Technology for Multiple Electrostatic Shielding

## PRODUCT RANGE

- Online UPS
- HT & LT Industrial AVR
- Servo Stabiliser
- Ultra Isolation Transformer
- Automatic Power Factor Control Panel
- Maximum Demand Control Panel
- Special Control Panels

## SERVICES

- Power Quality Management
- Energy Audit Study

## CUSTOMER SUPPORT

Centrally located in Ahmedabad, the customer support division remains consistent in progressively adding to its well-deserved reputation, spurred by a scientific spirit, entire team of engineers & technicians involved in the maintenance operations, meticulously work to keep customer demands satisfied. Our commitment to the customer goes beyond executing the best possible equipment. To help assure the perfect match of product & application, we offer and extensive direct support at all levels.

*\*We reserve the rights to change product specification without prior notice.*



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