

# Isolation Transformer

PUREVOLT manufacture ISOLATION TRANSFORMERS, STEP UP TRANSFORMER, STEP DOWN TRANSFORMER which reduce the effects of power Line problems like noise, spikes, surges, transients and neutral, to a minimum.

Isolation transformer is one that contains two windings: Primary and Secondary winding, that are separated from each other but wound on the same Iron core. The secondary that governs the output is, in this manner, separated from the input. Input and output are totally independent of each other except for the magnetic linkage between the two.

Owing to inductive loads, capacitive loads, SMPS loads, electronic ballasts and with PWM Switching systems, the present AC Power lines are superimposed with dangerous spikes, Surges, transients, sags and RFI noise and harmonics. As a result failure rates of electronic equipment are on the rise. Without adequate protection, All electronic equipment is at a great RISK.

## Key Features of PUREVOLT Isolation Transformer :

- High efficiency, high reliability and accuracy. Compact, rugged in construction, free standing, floor mounting model and housed in sturdy metal casing with sufficient ventilations.
- High insulation values.
- Suitable for use with modern sophisticated micro processor based equipment, CNC machines, computers and other Industrial processing.
- Isolates the equipment from noisy power line.
- Reduces Power line noise, surges, spikes & transient.
- Provides the complete electromagnetic & electro static shielding

## The results of an Ultra Isolation transformer are:

- It provides a perfectly balanced neutral at 'zero' potential and neutral can be used by grounding it.
- The supply of the output is free from all surges/spikes and so called electrical noise, which predominantly is present on the input side.
- Since the output is totally isolated from the input, any short circuits or faults on the primary side are not reflected on the secondary, thus avoiding damage to the sensitive electrical equipment.



## Technical Information

Input Range	Output Range	Ratings Available
415V AC 3-Ph	415 V AC 3-Ph	1KVA 3-Ph and up to 500 KVA 3-Ph
415V AC 3-Ph	220 V AC 3-Ph	1KVA 3-Ph and up to 500 KVA 3-Ph
230 V AC 1-Ph	230 V AC 3-Ph	500VA 1-Ph and up to 100 KVA 1-Ph
230 V AC 1-Ph	110 V AC 3-Ph	500VA 1-Ph and up to 100 KVA 1-Ph

## Technical Specifications

Sr. No	System Connections	Delta / Star or Star / Delta
01	Ratios	1:1 and 2:1
02	Regulation	Better than 3.5 %
03	Di-electric strength	2500 V AC for 120 Sec
04	Insulation resistance	More than 1000 Mega Ohms
05	Coupling Capacitance	0.1 PF for 100 db
06	Common Model attenuation	100 db
07	Construction Standards	As per IS 2026

**PUREVOLT**  
Complete Power Solutions

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