



Applications :

- ✓ Textile Machinery
- ✓ Medical Equipment
- ✓ Process Control Equipment
- ✓ Communication Equipment
- ✓ CNC Machines
- ✓ Deep Freezers
- ✓ Printing Machines

Features :

- ✓ Air Conditioning Package Units and Plants
- ✓ Printing Machines
- ✓ Banks
- ✓ Lifts and Elevators
- ✓ Retail Outlets
- ✓ Garment Factory
- ✓ Rice Mill
- ✓ Filters power line noise, spikes and transients
- ✓ Isolates sensitive equipment from noisy power lines
- ✓ Complete with electrostatic Shielding
- ✓ Minimizing Common mode noise



Local Area Networks



Servers



Data centers



E-Business



Call Centers



Information Systems/Market Research



Emergency Devices



Industrial PCs

ISO 9001

CERTIFIED

Ultra Isolation Transformers

DONVEY has a wide range of Ultra Isolation Transformer which reduces the effects of power Line problems like noise, spikes, surges, transients and neutral to a minimum.

Power generation in our country, is no doubt good and availability of continuous power is certainly better; but the stringent requirements of the sophisticated equipment being used today underlines the necessity of clean power.

Owing to inductive loads, capacitive loads, SMPS loads, electronic ballasts and with PWM Switching system, the present AC power lines are superimposed with dangerous spikes, surges, transients, sags RFI noise and harmonics. As a result, failure rates of electronics equipments are on the rise without adequate protection, all electronic equipments are at a great Risk.

Usually the failures are not seen right way. Repeated stresses from normal electrical transients weaken components and lead to shortening of components life. Line noises like spikes, surges, transients and so on definitely cause stress on semi conductor components and machine system experience catastrophic failures and software failures, extensive damage to PLC's and storage media, leading to heavy losses of production, data and man-hours.

With DONVEY Ultra Isolation Transformer all types of common electrical noises, particularly common mode noise spikes surges, and transients can be eliminated to a greater extent.

Salient Features

1. Isolation Transformers:

Any Double Wound Transformer is internally an isolation transformers as the primary and secondary are isolated from one another through insulation. However, modern machines and systems need a truly isolated, clean and stable power requirement. This ensured by an Ultra Isolation Transformer (UIT), it provides for total electrical and electrostatic isolation with most effective screening of spikes, surges and transients, further it gives a true isolated local neutral and dedicated earth which are very essential for modern machines.

Ultra Isolation Transformers alternates common mode noise and transverse mode noise and provides for noise or interference free power. In principle, UIT only transfers 50Hz. Power by transformers action through mutual inductance. It prevents transfers of RF and HF disturbance with extensive insulation between primary and secondary. The insulation levels withstands HV breakdown strength of 2.5 KV and gives DC Galvanic isolation of above 1000 megohms.

2. IP Enclosure Protection for Isolation Transformer:

DONVEY Isolation Transformer conform to IP-30 protection can be offered on request.

3. Testing of Isolation Transformer at site:

It is recommended that every Isolation Transformer can be tested at the site against Customer's specific request.

4. Details of Earthing for Isolation Transformer:

It is recommended that every Isolation Transformer can be tested at site against Customer's specific request.

5. Constructional Features of Isolation Transformers:

Isolation Transformer shall invariably be in one air cooled section.

The enclosures are constructed from m.s. angles and CRCA m.s. sheets of best quality of reputed make.

Technical Specifications

Input	Output	Rating Available
415 V AC 3 Ph	415 V AC 3 Ph	3 KVA 3 Ph and upto 500 KVA 3Ph
	230 V AC 3 Ph	
230 V AC 1 Ph	230 V AC 1 Ph	1 KVA 1 Ph and upto 50 KVA 1 Ph
	110 V AC 1 Ph	

System Connections	: Delta / Star or Star / Delta or Star / Star
Ratios	: 1:1 and 2:1
Regulation	: Better than 3.5 %
Power Factor	: 0.75 Lead to 0.75 Lag
Dielectric Strength	: 2KV for 60 sec
Insulation Resistance	: Better than 1000 Mega Ohms
Coupling Capacitance	: 0.01 PF for 100 Db
Leakage Current	: Less than 20 Micro Amps
Common Mode Attenuation	: 100 Db / 120 Db
Construction Standards	: As per IS 2026 Part I & II
Type of Execution	: Closed Type
Operating Temperature	: 0° C to 45° C
Type of cooling	: Natural air / Forced air



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Authorised Dealers: