

VERTEX



Innovation, Quality & Service.. Par Excellence

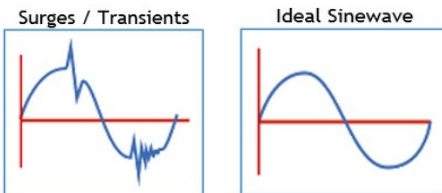


Solutions In Power Conditioning



APPLICATIONS:

- CNC Machines
- Laser Cutting Machines
- Textile & Garment Machines
- Food Processing & Packaging Machines
- Printing Machines
- Granite Cutting & Polishing Machines
- Medical & Analytical Equipments
- Data Centres, UPS Bypass, Telecommunication, etc.



ULTRA ISOLATION TRANSFORMERS SINGLE PHASE / THREE PHASE 1 kVA – 600 kVA

An Isolation Transformer is a transformer, often with symmetrical windings, which is used to decouple two circuits. An isolation transformer allows an AC signal or power to be taken from one device and fed into another without electrically connecting the two circuits. Isolation transformers block transmission of DC signals from one circuit to the other, but allow AC signals to pass. They also block interference caused by ground loops.

VERTEX Ultra Isolation Transformer employs a unique multiple shielding technique that reduces the interwinding capacitance to a large extent and increases the DC isolation.

- Isolation Transformers can be used in sensitive equipment as power supply
- It can be used to create a star point in grids that do not have such a point
- Appliances induce a high level of interference back to their power supply if the equipment needs to be protected from this noise and isolation transformer can be used for their supply
- Equipment can be protected from power disturbances like voltage transients, spikes, from DC leakage
- It can be used in sensitive equipment, to provide an isolated neutral ground
- Reduced coupling capacitance

Customised K-Rated Isolation Transformers:

The K-Rated Isolation Transformer is designed to handle high Harmonic currents with ratings of K4, K7, K13, K20. The higher the K-rating, the more harmonic current the transformer can handle.

SPECIFICATIONS— ULTRA ISOLATION TRANSFORMER (UIT)

Parameters	Single Phase UIT	Three Phase UIT
Construction	Indoor Purpose	
Type of Transformer	Dry Type, Floor Mounted, Indoor Application	
Type Of Cooling	Aircooled / Oilcooled (As per requirement)	
Type of Connection / Voltage Ratio	1:1 / 2:1 (As per requirement)	Delta / Star 1:1 / 2:1 (As per requirement)
Load Regulation	< 3.5% @ 100% Load	
Efficiency	> 97%	
Duty Cycle	Continuous	
Type of Lamination	CRGO	
Class of Insulation	Class F	
Dielectric Strength	2500 V for 1 min	
DC Galvanic Isolation	> 1000 M Ohms	
CMNRR	>100 dB	
Short Circuit Protection	MCB (OR) MCCB at Input (Optional)	
Ambient temperature	0 - 50° C	
Display Type	Analog Voltmeter (Optional)	
Front Panel Indications	LED Indication – Output ON	LED Indication – Output ON R/Y/B Phases
Input / Output Connection	Input / Output Terminal Plate (Nut-Bolt arrangement)	
Surge Protection Device (SPD)	Optional	
Standard kVA Ratings	1 kVA to 25 kVA	3 kVA to 600 kVA
Design Standards	As per IS: 2026 Part 1 & 11	

- Specifications are subject to change without notice, on account of development in product design.

PRODUCT RANGE:

- ♦ SERVO VOLTAGE STABILISERS
- ♦ STATIC VOLTAGE STABILISERS
- ♦ ULTRA ISOLATION TRANSFORMERS
- ♦ K-RATED TRANSFORMERS
- ♦ CONSTANT VOLTAGE TRANSFORMERS
- ♦ UN-INTERRUPTED POWER SUPPLIES
- ♦ SURGE PROTECTION DEVICES
- ♦ EMI/RFI FILTERS

Founded in 2001 in Chennai, India, VERTEX is involved in manufacturing Electrical Power Protection Systems. Over the years, the company has earned a reputation for excellence and professionalism for continuously striving to meet and even exceed the standards thereby setting the environment for a sustainable business relationship with its clients.

Today we are one of the leading manufacturers of Servo Voltage Stabilisers and Isolation Transformers in India with **over 1 lakh installations.**

VERTEX employs technically skilled, qualified and highly dedicated personnel working cohesively to promote value-added solutions at competitive pricing to suit distinct clientele needs.

SOME OF OUR VALUED CUSTOMERS

Textiles: Veejay Lakshmi, TVS (textile division), LMW, Lakshmi Mills, Premier Mills, KPR Group, Loyal textiles, SCM textiles, GTN Group, GMR Spintex, Bharat Silks, Raymond Mills, Ambika Mills, Paramount Group, Indian Rayon, Gopalakrishna Mills, Mangrool Mills, Mount Exports, etc

Petroleum: HPCL, Petro Araldite.

Cellular/Telecom: IDEA Cellular, Reliance.

Educational /Research Institute: Indian Institute of Science (**IISC**), Sri Venkateshwara University, SKBR Group, and Good Shepherd School of Education, etc

Government & Public Sector: ETDC, South Central Railways, LIC of India, State bank Of India, Bharat Electronics (BEL), BHEL, HIAL, NAL, CWSSSES, CONCOR, CSIR-SERC, IRCTC, IGCAR, etc

Pharma /Analytical: Dr.Reddy's Lab, Nicholas Piramal, NATCO Pharma, VIRCHOW Labs, AIMIL, Helpanel System, etc

Engineering: Veejay Lakshmi Engineering Pvt Ltd, Pride Machine Tools, Rane Madras group, Madras Engineering Industries P. Ltd., Alfa Laval, Yuken India, Deccan Hydraulics, Rolastar Group, Maini Precision, Ashok Leyland, Sundaram Clayton, Associated commercial, Nash Industries, Solidus Hitech, Indo Shell Cast, Virpan Precision, Kirby Building systems Pvt Ltd, Fenesta Building system, Gokul Industries, Dream Valley Castle Services Pvt Ltd, Myung Sung India Precision Pvt Ltd, SL Lumax Ltd., etc

Others: ITC Bhadrachalam Paper & board Ltd., The Andhra Sugars Ltd., L & T - ECC Div, ECLAT Auto pack, Ascents Circuits, AT & S (India), Reliance Fresh, India Cements, Ingersoll-Rand India, TUV Suddeutschland India, SKOL Breweries Ltd, Mission Hospital, Kotak Mahindra Bank Ltd, Hindustan Liver Ltd., Whirl pool of India Ltd., Vieston Automotive, Standard Chartered bank, Aachi Masala Pvt Ltd., Uniply Industries, Thirumala Milk products Pvt Ltd, APC Consultants Pvt Ltd, Sidra Foot Wear Pvt Ltd, Imaan Shoes Pvt Ltd., Harshal Printing, Wingtech Mobile, Amararaja Batteries, etc.

Head Office & Works:

VERTEX POWER SOLUTIONS PRIVATE LIMITED

**No. 38, Muthupalaniyappan Nagar,
Samy Street, Nagalkeni, Chrompet,
Chennai – 600 044 Tamilnadu, India.**

Chennai: +91 99400 58974 / 9886081610

Coimbatore: +91 98420 11833, Bangalore: +91 91646 57788

Email: ho@vertexpower.co.in / sales@vertexpower.co.in

www.vertexpower.co.in