



**VERTEX ULTRA SOLATION TRANSFORMER**  
**SINGLE PHASE / THREE PHASE - AIRCOOLED**  
**1 kVA – 500 kVA**

**Vertex Power Solutions Pvt. Ltd.**, is managed by a team of Engineers with over 25 years of experience in the field of Power conditioning Equipment. The Products are manufactured at Chennai, under the brand name of VERTEX.

VERTEX, through its quality products & service, has made its presence felt in various segments like Textile, Telecom, Engineering & Automobile, Printing, Packaging, Medical, Analytical, Audio/Video, IT, etc.

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. Isolation transformers with electrostatic shields are used for power supplies for sensitive equipment such as computers, Lab Instruments, CNC Machines, Medical Equipments, etc.

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

***Applications:***

Medical, Analytical, UPS (bypass), Printing, CNC machines, Telecom (GSM towers), Residential, Food processing, Offices/Commercial Complexes etc.

# TECHNICAL SPECIFICATIONS – Ultra Isolation Transformer (UIT)

## TECHNICAL SPECIFICATIONS - ISOLATION TRANSFORMER

TYPE OF TRANSFORMER	Dry Type, Floor Mounted, Indoor Application
TYPE OF COOLING	Naturally Air -Cooled
TYPE OF CONNECTION	Delta / Star
PRIMARY / SECONDARY VOLTAGE	i) 1:1 ii) 2:1 iii) Customised
REGULATION	< 3.5%
DUTY CYCLE	Continuous
CLASS OF INSULATION	Class F
TYPE OF LAMINATION	CRGO
AMBIENT TEMPERATURE	0 - 50° C
HUMIDITY	> 95% RH
DC GALVANIC ISOLATION	> 1000 M Ohms
DIELECTRIC VOLTAGE	2500 V for 2 min
LEAKAGE CURRENT	< 20 Micro Amps
COUPLING CAPACITANCE	0.001 PF
CMNRR	>100 dB
DEGREE OF PROTECTION	IP 31
CONSTRUCTION STANDARDS	As per IS: 2026 Part 1 & 11
POWER FACTOR	0.75 Lagging to 0.75 Leading
STANDARD KVA RATINGS	1 kVA – 500 kVA

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

### Head Office & Works:

## **VERTEX POWER SOLUTIONS PVT. LTD.,**

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