

# Pro-IT Series Isolation Transformers

TSINE Pro-IT Series isolation transformers are mainly for isolating the input power available in its primary windings from the output power in its secondary windings, thus leads a reliable supply for systems & loads connected to the secondary windings. Besides the isolation, Pro-IT Series helps to create a fresh neutral point and/or helps to increase/ decrease the voltage from the primary to secondary windings.

Pro-IT is for max. reliability and total isolation of the systems from power source disturbances/ fluctuations.

## Features and Benefits

- Total Isolation of Distribution System & Loads
  - Totally isolates distribution system from hazards of harmonics, power disturbances & voltage fluctuations.
  - Delta/ Star design does not require any neutral availability at the input side, thus creates a fresh ground-neutral reference for output & connected loads, systems.
  - Reduces sudden current fluctuations.
  - Proven, reliable galvanic isolation.
- Voltage Options
  - Conventional 208-220-380- 400-440-480- 600Vac as standard, others on request.
- Specially Designed to Withstand and Manage Excessive Environment Conditions & Operating Temperatures, High Material Quality
  - Ultra protection against input supply fluctuations & distortions.
  - Euqal-sized neutral conductor, neutral bus size configured to accommodate at least 100% of the rated current as well as the phase conductors.
  - Continuous output power for the environment temperatures up to 50°C
  - High quality pure electrolytic copper windings (Optional aluminium), high magnetic permeability iron core.
  - Air spaced welding which minimizes body earthing resistance
  - Advanced engineering, enhanced magnetic and resistive properties.
- Highly-efficient, Savings During Lifetime, Low OPEX
  - Meets DOE 2016 and NEMA TP-1 efficiency requirements, efficient is 97% and above.
  - Vacuum varnishing finish thus leads increasing efficiency by reducing heat losses, protection against humidity & wet environments, reduced operating audible noise.
- Flexibility & Versatility via Custom Designs
  - Voltage transformation within a wide range of input & output voltage; like 208 to 400Vac or 380 to 415Vac.
  - Completely accessible for service and maintenance from front panel.
  - Top and bottom cable entry
- Compliance to International Standards
  - Meets standards EN 61558-2-2, EN61558-2-4, CEI 96-8, VDE 0550, BS 171
  - Transformers include a versatile bonding/grounding bar affixed to the bottom panel as standard, to provide compliance with NEC 450.10(A)
- Complete line of system accessories
  - In-built or external transformer cabinets
  - Integrated distribution cabinets
  - Integrated accessory cabinets



## Technical Specifications

Voltage Class	600V
Ratings	50W - 500 kVA
Voltage & Frequency	208-220-380- 400-440-480- 600Vac others on request
Windings Material	Copper or Aluminium
Efficiency	97% or higher
Transformer Design	Delta/Star, without neutral at the input
Neutral Line Capacity	100% of nominal
Dielectric strength	4,2kVac min.
CMNA	146dB (with triple shielding)
Overload Capacity	200% for 30 sec, 500% for 1 sec, 1000% for 1 cycle
Load Regulation	±1% at full load.
Audible noise	< 45 dB at 1mt.
Enclosure type	IP21, metal, epoxy painted RAL7032
Operating temperature	0°C to 50°C ambient
Operating humidity	up to 90% relative (non condensing)
Operating altitude	up to 1000mt above sea level

## tsinepower

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