

## Isolation & Auto Transformers

Designed to save energy costs while protecting your equipment

Transformers are critical equipment in the power supply chain of every industry and work 24/7 in most cases. The quality and efficiency of transformers therefore are very critical and make a significant difference to the industry both in terms of uptime and energy costs. Considering the importance of this, we are offering innovatively designed efficient transformers that help industries through superior performance and lower energy losses.

With over 250,000 installations in various applications, our transformers have a proven track record of performance over a long life-cycle.



### Our product range includes:

- ❖ Ultra Isolation Transformers
- ❖ K-rated Transformers
- ❖ Galvanic Isolation Transformers
- ❖ Auto Transformers

### Advantage KRYKARD

KRYKARD uses a patented technology - Aluminium Foil wound electromagnetic core (AFT) in Transformers. Thanks to the foil construction and choice of aluminium as a conductor, these transformers offer significant and unmatched advantages over conventional copper wire/ strip wound transformers.

- Better heat transfer and lower temperature rise
- Lower Weight
- Better suited for Harmonic loads
- No hot-spots
- More efficient

### Ultra Isolation Transformer (UIT)

A double wound transformer with multiple shielding for Capacitive or Faradic Isolation (reduction of capacitive coupling). This transformer has very high attenuation of Common Mode transients thus preventing passage of voltage transients, spikes and galvanic leakage in the Common Mode from reaching sensitive electronic equipment like computers, medical equipment and CNC machines.

It also addresses problems related to poor input neutral. The Ultra Isolation transformer can be designed to provide output voltages to suit machine requirement.

### Salient Features

- ❖ Low inter-winding capacitance
- ❖ Good DC galvanic isolation
- ❖ High attenuation - 100 dB in common mode up to 10 kHz
- ❖ Optimum transformer design ensures good load regulation

### Galvanic Isolation Transformer (GIT)

A double wound transformer, which provides galvanic isolation and hence addresses problems related to input neutral. The Galvanic Isolation Transformer can be designed to provide output voltages to suit machine requirement.

### K-rated Transformer (UIT with K-rating)

Isolation Transformers using AFT are ideal choice for harmonic conditions due to their foil construction. Hence K rating is more effectively achieved with AFT when compared to the conventional copper wire wound Transformers.

### Auto Transformer

Auto transformer is a transformer with a single winding (and therefore is without isolation) designed to change the output voltage to suit machine requirement.

Technical Specifications		
Parameter	3-Phase	1-Phase/ 2-Phase
Rating	3kVA to 500kVA	1kVA to 25kVA
Type of transformer	Floor mounted, natural air-cooled/ oil-cooled (depending on rating)	Dry type, floor mounted, natural air-cooled
Configuration	Delta/ Star 1:1 (or as per user specification)	1:1 (or as per user specification)
Type of lamination	CRNO	
Winding	Aluminium Foil	
Load regulation	Better than 3%	
Class of insulation	Class 'B'	
Efficiency	> 95% (> 97.5% for Green Variant) At rated input voltage and at 100% rated current of loads that are linear	
Insulation strength	Withstands 2.5 kV for 1 minute (between windings & between windings and body)	
DC galvanic isolation	> 1000 Mega Ohms - for UIT > 100 Mega Ohms - for GIT	
Common Mode noise rejection (for UIT only)	Up to 10 kHz > 100 dB 10 kHz to 50 kHz > 60 dB 50 kHz to 1 MHz > 40 dB	
Protection	HRC Fuse at input	
Housing	Provided with input/ output terminations	

Auto Transformer is designed to customer requirement.

**atandra**  
*measure. protect. conserve*

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