



ISOALTION TRANSFORMER

All transformers provide isolation. They are generally constructed with a primary and secondary winding closely wrapped about the same magnetic core.

Transformers have capacitance from a winding to any nearby Conductor, such as other winding, the wire and the chassis. Thus they can couple high frequency signals and noise to these near by conductors. This capacitive coupling mechanism can carry high frequency noise from the input primary to the output secondary winding or vice versa. Isolation transformers minimize this capacitive coupling.

Capacitive Coupling is minimized by specialized construction and use of shields. Shields usually increase the capacitance coupling between primary and secondary if the shield is not connected to the appropriate place. The technique lies in connecting the shields at a place where noise is diverted to harmless place. Isolation levels upto 120 dB can be provided.

S. No.	PARAMETER	SINGLE PHASE UNIT	THREE PHASE UNIT
1	CAPACITY	1KVA – 100KVA	5KVA – 1000KVA
2	RATING	110 % Continuous	110 % Continuous
3	REGULATION	1 %	1 %
4	INPUT VOLTAGE	Any Range Within 100-300V	Any Range Within 170-550V
5	INPUT FREQUENCY RANGE	50 Hz \pm 3 Hz	50 Hz \pm 3 Hz
6	INSULATION	Class B, E, F	Class B, E, F
7	EFFICIENCY AT FULL LOAD	>98%	>98%
8	COOLING	ON AN	ON AN
9	LOCATION	Indoor/Outdoor	Indoor/Outdoor
10	AMBIENT	50° C	50° C