

IT - 50 / IT - 500 ISOLATION TRANSFORMERS

RELATED STANDARDS

FAA : Isolating transformers are in accordance with FAA specifications AC 150/5345-47A L-830 and L-831

ICAO : Isolating transformers are in accordance with ICAO recommendations.

APPLICATIONS

- In supplying the airfield lighting by a series circuit.

IMPORTANT FEATURES

- The primary windings of all transformers are connected to a constant current regulator and the secondaries are connected to runway or taxiway lights. Thus the primary and secondary windings being separated, safety of the personnel is acquired.
- Operates without time limit in short circuit, open circuit and full load conditions.
- Watertightness is obtained by polychloroprene coating.
- Can directly be buried in soil.
- The plugs and receptacles enable easy connection.



FIGURE 1

MECHANICAL FEATURES

- The Toroidal core made of low loss grain oriented laminations. Primary and secondary windings are made of double enamelled copper wire.
- Single core primary cables 0.60m 6mm² - 5kV with factory moulded plug Type I Style 2 and receptacle Type I Style 9.
- Two core secondary cables are 1.20m 2x2.50mm² with factory moulded receptacle Type II Style 8.
- Transformers are designed for continuous operation.
- Transformers are resistant to salty water, fuel, oil and ozone in ambient temperatures between -55°C and +65°C.
- Our transformers are Turkish Standards Association (TSE) approved.

ELECTRICAL FEATURES

Rated Wattage (W)	Primary Current (A)	Minimum Power Factor	Minimum Efficiency	Secondary Current (A)	Load (Ohm)	Maximum Voltage At Open Circuit (V)
30/45	6.6	0.95	80	6.53 - 6.67	1.15	25
30/45	6.6	-	-	6.6 - 7.1	short circuit	-
100	6.6	0.95	85	6.53 - 6.67	2.44	70
100	6.6	-	-	6.6 - 7.1	short circuit	-
150	6.6	0.95	90	6.53 - 6.67	3.67	80
150	6.6	-	-	6.6 - 7.1	short circuit	-
200	6.6	0.95	90	6.53 - 6.67	4.82	100
200	6.6	-	-	6.6 - 7.1	short circuit	-