

Transformer Rectifier's

The equipment is a variable voltage **Transformer Rectifier** for installation outdoors and provides the low voltage direct current supply to an impressed current Cathodic Protection system. T.R.'s are available in a full range of outputs with standard values and cabinet sizes shown below although we are more than happy to accommodate any specific requirements with regards to size or output.

<i>MODEL/RATING</i>	<i>Cabinet Details (WxDxH)mm</i>
2 AMP 18 VOLT	Poly 330x200x435
2 AMP 48 VOLT	Poly 330x200x435
5 AMP 24 VOLT	Poly 330x200x435
5 AMP 48 VOLT	Poly 435x250x650
10 AMP 24 VOLT	Poly 435x250x650
10 AMP 48 VOLT	Poly 435x250x650
15 AMP 48 VOLT	Steel 600x300x600
20 AMP 48 VOLT	Steel 600x300x600
25 AMP 48 VOLT	Steel 600x300x600
30 AMP 48 VOLT	Steel 600x300x600

The equipment comprises three main components:

- a) Variable transformer to control the input to the output transformer
- b) Double wound main transformer which reduces the supply voltage to a secondary voltage of approximately 48V* dc.
- c) Silicon thyristor/diode, full wave bridge rectifier which converts the transformer secondary voltage to the required 48V* dc.

Voltages given at (b) and (c) are 100% of supply voltage.

The input supply to the unit is 230-240V 1 PH 50 HZ and the direct current output is variable to 48V* at a maximum current rating of 10A*.

*The figures above are based on a 10-amp 48-volt unit; please substitute the values of the T.R. in question where relevant. Such occasions are marked with an asterix.

The equipment is supplied complete with various protection devices, meters etc.

- a) AC input fuse
- b) Variable transformer output fuse
- c) Output fuse
- d) Metal oxide surge suppressers, provide protection of the rectifier and transformer against transient voltage surges caused by AC switching and fuse rupture

T.R.'s are fitted with two moving coil DIN style panel meters for monitoring of the DC output. We can also fit **digital meters** if preferred.

The Transformer Rectifier is mounted in a polyester/steel cabinet

Any T.R. can be housed in a **GRP kiosk** with all internal devices including thermostat, heater, junction box and consumer unit with RCD and MCB's. Solutech can also fit the kiosk's with remote monitoring systems such as **Abriox** and **Metretek**.