



High Voltage Plate Transformer

High Voltage Plate Transformer are rectifier transformers that supply power to the plate of a high power tube. Due to decreasing demand, they are in danger of becoming a lost art, except at Power Magnetics! Being high voltage devices, they require an expertise in dielectric engineering that PMI has achieved through a combination of knowledge of dielectric fundamentals, physics and considerable manufacturing experience. High Voltage Plate Transformers are subject to high operating as well as transient voltage stresses that must be properly designed for. All High Voltage Plate Transformers are engineered to be substantially corona free, which promotes a long trouble free life. Another hallmark of the High Voltage Plate Transformers is vacuum impregnation (VPI). By fully impregnating the coil with varnish it guarantees better moisture resistance, higher mechanical strength and cooler operation temperatures that result in a longer life. Power Magnetics manufactures high and low volume specialty High Voltage Plate Transformers in a wide range of voltages and power. These devices are used in dielectric inductive heating, microwave, radio and television transmitters markets.

Capabilities

- Power up to 1500 KVA
- 15 KV Class
- Frequency 50/60 Hz
- Hi-Pot up to 50 KVAC
- Dry Construction, copper or aluminum windings
- Manufactured to meet US and International UL, CE, IEC, CSA and ANSI standards
- VPI (Vacuum – Pressure Impregnation varnish with gas-fired oven curing)
- Insulation Class 150, 180 and 220

Optional

- NEMA 1 or NEMA 3R enclosure
- Thermal Switches
- Custom Terminations
- Special Impedance 5 / 8 / 10%
- Issue of Certificate of Compliance and Test Reports