



HIPOTRONICS, INC.

HIPOTRONICS VOLTAGE GENERATORS

The Voltage Generator or High Voltage supply section of the Hipotronics DC Power Supplies fall into four basic categories: Three are used for single phase applications, and one for three phase applications.

The three single phase type voltage generators are the half wave rectifier, full wave bridge or full wave bridge or full wave doubler, and for three phase applications, a three phase delta-wye full wave bridge is used. Of the three types used for single phase application the half wave rectifier is the least used. The main reason for its usage is determined by economics and the requirement for generating a pulsating DC.

Generally the determining factor as to whether a full wave bridge or a full wave doubler is used depends upon the power requirements of the generator section and space limitations. The full wave bridge is capable of delivering higher current while the full wave doubler provides a higher voltage, from the same basic size of the transformer.

The fourth type of voltage generator of the high voltage section is a three phase delta-wye bridge, of course, the delta-wye transformer suits a specific need. Its advantages over single phase applications are that delta-wye configurations generally have approximately 90% less ripple, and 73% higher output voltages than across the three single phase loads.

Normally those units having a rating of 12½KV or less are air insulated while those above 12½KV are either oil or epoxy insulated.

Hipotronics Model 806-840 High Voltage DC Power Supply

Output:

0-6 kV

0-840mA

Input:

208V 3Phase Input

