

POWER SUPPLY

HIGH VOLTAGE

HVPS AND GRID MODULATOR - AIRBORNE RADAR APPLICATION



High Voltage Converter - Grid Modulator

Espey developed this power supply for the F-111 coherent 2.75 kW TWT radar transmitter system for a prime military contractor program. Espey designed the high voltage module and has delivered several hundred-production units. The small, solid state, high voltage module includes a 12 kV power supply with grid modulator. The unit is driven by a 30 kHz square wave 440 V pk-pk.

Features:

- Qualified to airborne environment extremes
- Qualified to MIL-E-5400T

Specifications:

ELECTRICAL SPECIFICATIONS

- Input Voltage: 440 V pk - pk 30 kHz
- DC Output Voltages: -10 to -12 kV
- Pulse Current: 1.8 Amps
- Max PRF: 15 kHz
- Power Consumption: 200 Watts

MECHANICAL SPECIFICATIONS

- Liquid filled Convection cooled
- Size: 8" X 7.3" X 7.9"
- Weight: 26 lbs.
- Sealed steel case with integral bellows

GE-13K1-PS