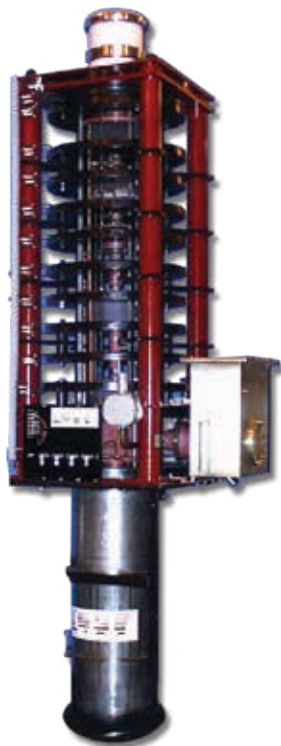


## Communications & Power Industries Klystron



CPI Microwave Power Products (MPP) offers super-power klystrons for particle accelerator applications. Typical performance for these devices are operating frequencies of 350 to 700 MHz and output power up to 1.3 MW CW. The VKP-7958A is a 500 MHz, 800 kW CW klystron developed for DESY.

### Typical Operating Parameters

Minimum power output	800 kW
Maximum beam voltage	74 kV
Maximum beam current	18 A
Mod anode voltage	55 kV
Frequency	499.67 MHz
1 dB bandwidth	±1.0 MHz
Minimum saturated gain	40 dB
Minimum efficiency	62%
Collector coolant flow	140 gpm/530 l/m
Body I coolant flow	4.4 gpm/1 m <sup>3</sup> /h
Body II coolant flow	6.6 gpm/1.5 m <sup>3</sup> /h
O/P Window cooling (air)	50 cfm/100 m <sup>3</sup> /h
Electron gun cooling (Air)	50 cfm/100 m <sup>3</sup> /h
Electromagnet	
Gun coil current	5 Adc
Gun coil voltage	8 V
Main coil current	14 Adc
Main coil voltage	180 V
Size with accessories	
Length	60 in/1530 mm
Width	54 in/1370 mm
Height	157 in/4000 mm
Weight	5200 lbs/2360 kg

#### FEATURES:

- Electron gun with modulating anode for beam current adjustment
- 6-cavity rf circuit, including one 2nd harmonic cavity for enhanced efficiency
- Single coaxial output window
- Air insulation for electron gun (HV Enclosure not shown in photo)

#### BENEFITS:

- High reliability & efficiency
- Proven long life designs
- Customizable models for your application

#### APPLICATIONS:

- Particle accelerator