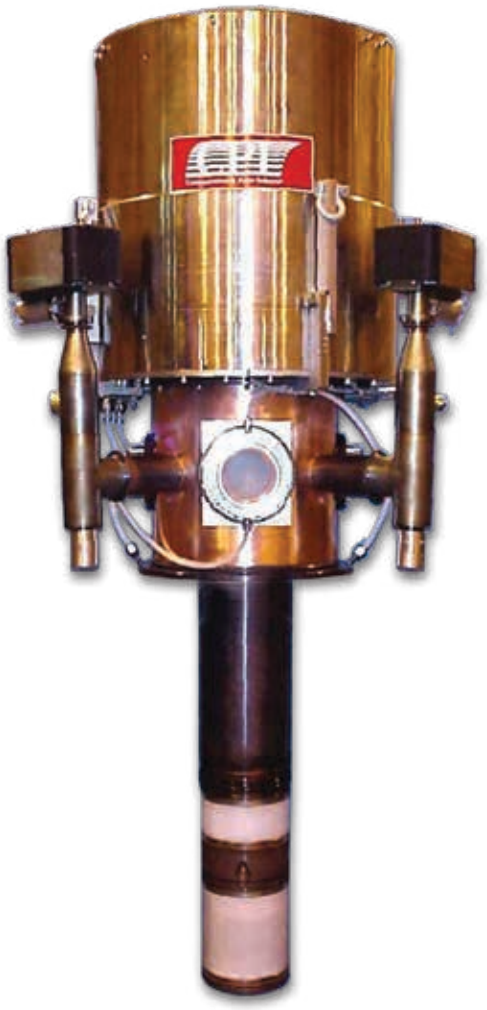
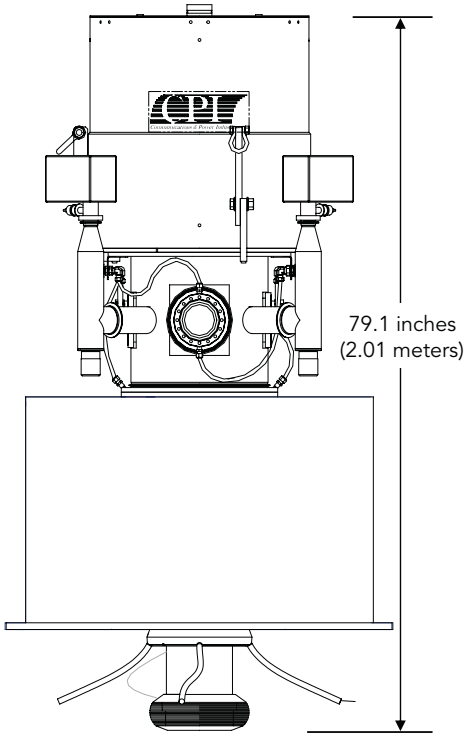
500 kW Gyrotron Pulsed Oscillator VGB-8084A

Communications & Power Industries Gyrotron Pulsed Oscillator





CPI gyrotrons were the first commercially available high-power, long-pulse/CW, high-frequency devices for plasma fusion experiments and other scientific and industrial applications. CPI-MPP provides an extensive line of gyrotrons that cover frequencies from 28-140 GHz with power levels ranging from 10 kW to 1.3 MW.

The VGB-8084A gyrotron delivers output power levels up to 600 kW at a frequency of 84 GHz.

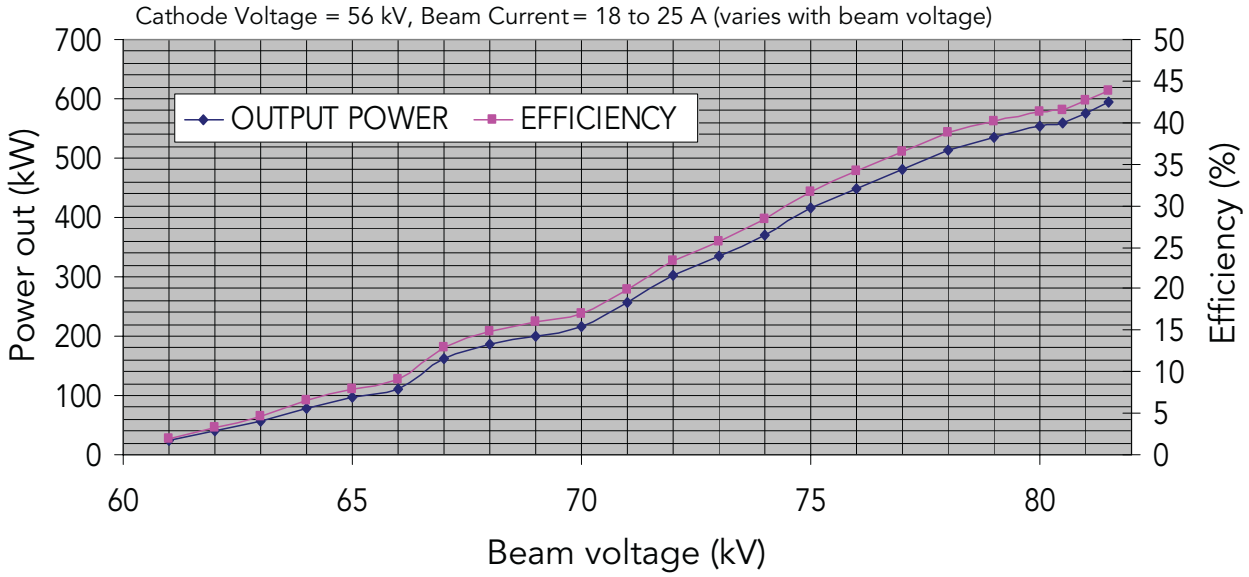
FEATURES:
- Gaussian output beam
- CVD diamond output window
- Diode electron gun
- Single-stage depressed collector
- Long hold-time superconducting magnet

BENEFITS:
- High power
- High frequency

APPLICATIONS:
- Industrial heating
- Plasma in fusion reactor
- Cyclotron resonance ion source

CPI 500 kW Gyrotron Pulsed Oscillator: VGB-8084A

Power & efficiency vs. beam voltage

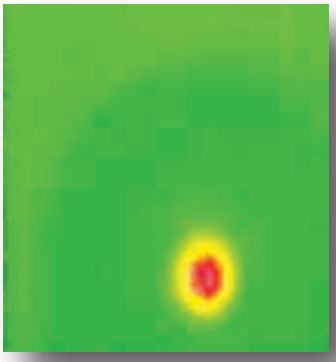


Typical Operating Parameters

Power output	600 kW
Pulse length	2 sec
Cathode voltage	-60 kV
Body voltage	+20 kV
Beam current	25 A
Frequency	84 ± 0.2 GHz
Efficiency	40%
Gyrotron weight	1800 lbs (816.47 kg)
Output mode	TEM_{00}

CVD diamond output window

Infrared image of beam output window



With a history of producing high quality products, we can help you with your gyrotron.
Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.

Communications & Power Industries

Microwave Power Products Division
811 Hansen Way
Palo Alto, California
USA 94304

tel +1 650-846-2800
email MPPMarketing@cpii.com
web www.cpii.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

9/20