

FULL-WAVE VACUUM RECTIFIER

5V4GA

Glass octal type used in full-wave power supplies having high dc requirements. Outlines section, 19B; requires octal socket. The heater is designed to operate from the ac line through a step-down transformer. The voltage at the heater terminals should be 5 volts under

operating conditions at an average line voltage of 117 volts. It is especially important that these tubes, like other power-handling tubes, be adequately ventilated. Heater: volts (ac/dc) 5; amperes, 2.

Full-Wave Rectifier

MAXIMUM RATINGS (Design-Center Values)

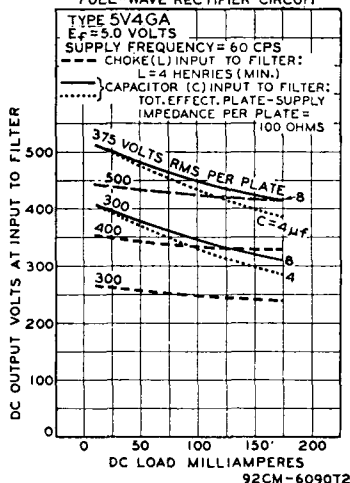
Peak Inverse Plate Voltage	1400	volts
AC Plate-Supply Voltage (Per Plate, rms):		
With capacitor-input filter	375	volts
With choke-input filter	500	volts
Peak Plate Current (Per Plate)	525	mA
Average Output Current	175	mA

TYPICAL OPERATION

	Filter Input	Capacitor	Choke	
AC Plate-to-Plate Supply Voltage (rms)		750	1000	volts
Filter-Input Capacitor*		10	—	μ F
Total Effective Plate-Supply Impedance per Plate ..		100	—	ohms
Filter-Input Choke		—	4	henries
DC Output Voltage at Input to Filter (Approx.):				
At output current of 175 mA		410	410	volts

* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance may have to be increased to prevent exceeding the maximum rating for peak plate current.

OPERATION CHARACTERISTICS
FULL-WAVE RECTIFIER CIRCUIT



Refer to chart at end of section.

5V6GT

Refer to chart at end of section.

5W4
5W4GT

Refer to chart at end of section.

5X4G