



5U4-G



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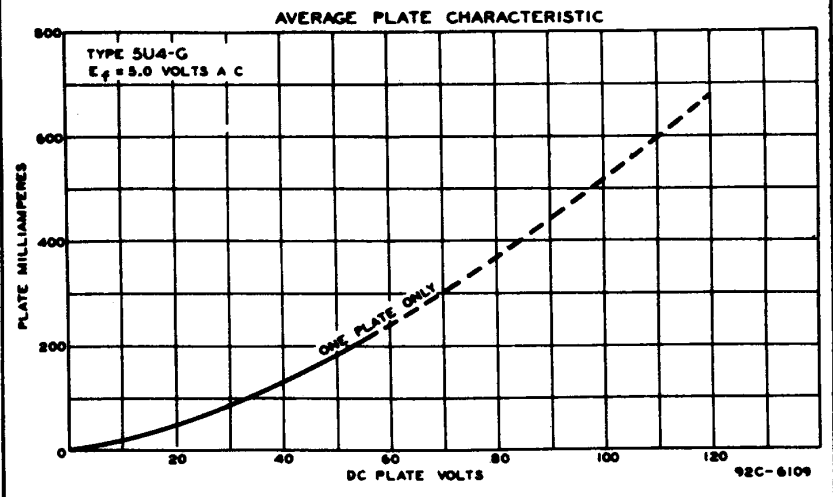
**FULL-WAVE VACUUM RECTIFIER**

→ **Typical Operation with Choke-Input Filter:**

AC Plate-to-Plate			
Supply Voltage (RMS) . . . . .	900	1100	volts
Filter-Input Choke . . . . .	10*	10**	henries
DC Output Voltage at Input to Filter (Approx.):			
At Half-Load Cur. of	{		
135 ma. . . . .	365	-	volts
112.5 ma. . . . .	-	460	volts
At Full-Load Cur. of	{		
270 ma. . . . .	345	-	volts
225 ma. . . . .	-	440	volts
Voltage Regulation, Half-Load to Full-Load Current (Approx.) . . . . .	20	20	volts

\* This value is adequate to maintain optimum regulation in the region to the right of line L=10H on curve OPERATION CHARACTERISTICS with Choke-Input to Filter, provided the load current is not less than 35 ma. For load currents less than 35 ma., a larger value of inductance is required for optimum regulation.

\*\* This value is adequate to maintain optimum regulation in the region to the right of line L=10H on curve OPERATION CHARACTERISTICS with Choke-Input to Filter, provided the load current is not less than 45 ma. For load currents less than 45 ma., a larger value of inductance is required for optimum regulation.



→ **RATING CHART and OPERATION CHARACTERISTICS**

The *Rating Chart* presents graphically the relationships between maximum ac voltage input and maximum dc output current derived from the fundamental ratings for conditions of capacitor-input and choke-input filters. This graphical presentation gives the equipment designer considerable latitude in choice of operating conditions.

The *Operation Characteristics for Full-Wave Circuit with Capacitor-Input Filter* show not only the typical operating curves for such a circuit, but also show by means of boundary lines "ADK" the limiting current and voltage relationships presented on the Rating Chart.

→ Indicates a change.

MARCH 1, 1951

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## FULL-WAVE VACUUM RECTIFIER

The *Operation Characteristics for Full-Wave Circuit with Choke-Input Filter* show the typical operating curves for such a circuit. They not only show by means of boundary line "CEK" the limiting current and voltage relationships presented on the *Rating Chart*, but also give information as to the effect on regulation of various sizes of chokes. The solid-line curves show the dc voltage outputs which would be obtained if the filter chokes had infinite inductance. The long-dash lines radiating from the zero position are boundary lines for various sizes of chokes as indicated. The intersection of one of these lines with a solid-line curve indicates the point on the curve at which the choke no longer behaves as though it had infinite inductance. To the left of the choke boundary line, the regulation curves depart from the solid-line curves as shown by the representative short-dash regulation curves.

MARCH 1, 1951

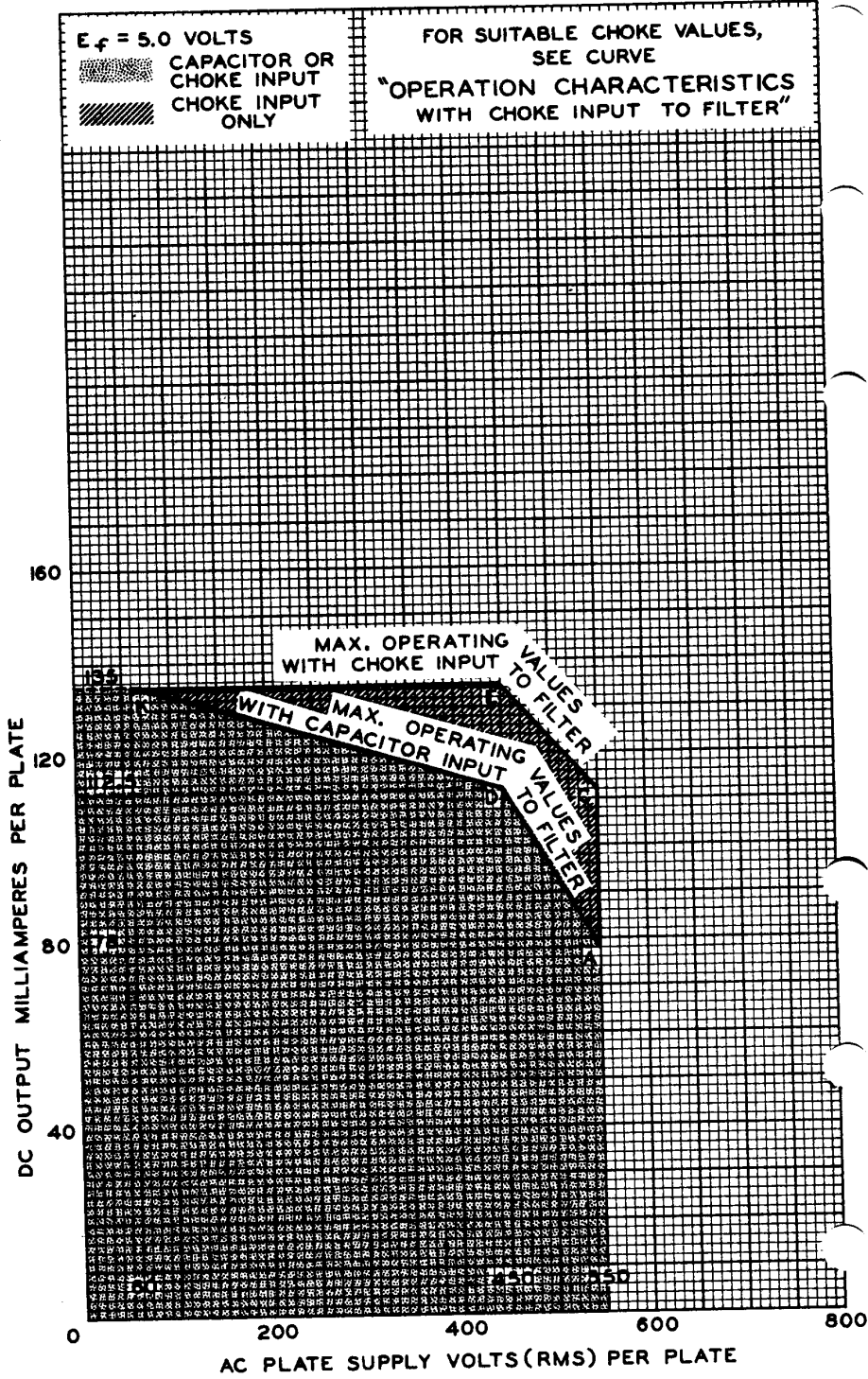
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# 5U4-G RATING CHART



MAY 25, 1950

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