

AMPEREX MERCURY VAPOR RECTIFIER 857-B

FILAMENT

A.C. Voltage	5.0
Current (amperes)	30.0
Preheating Period (Seconds)*	300

*Before plate voltage is applied.

MAXIMUM RATINGS

For Operation at Supply Frequency Up to 150 Cycles

	Condensed Mercury Temperature Range	
	25°C. to 60°C.	30°C. to 40°C.
Peak Inverse Voltage	10000	22000
Peak Plate Current (amps)	40.0	40.0
Average Plate Current (amps)*	10.0	10.0
Approx. Tube Voltage Drop	10	10

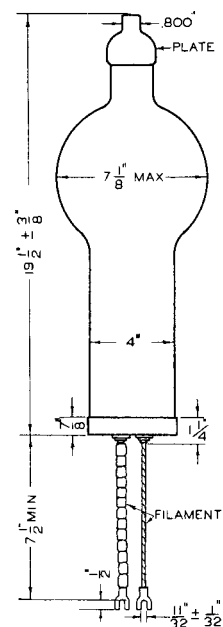
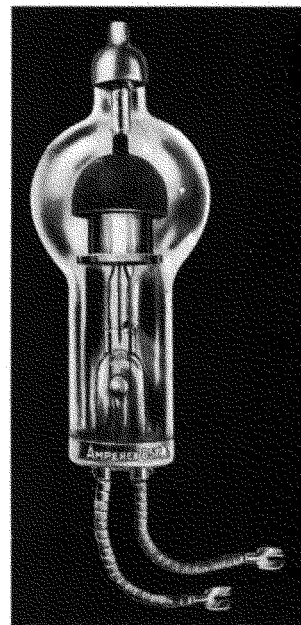
*Averaged over period of 30 seconds.

MAXIMUM OUTPUTS IN TYPICAL CIRCUITS

	A.C. Input Volts R.M.S.	D.C. Output Volts to Filter	Max. D.C. Load Current Amperes
Single-Phase Full Wave (2 Tubes)	7750*	7000	20
Single-Phase Full Wave Bridge (4 Tubes)	15500†	14000	20
Three-Phase Half Wave (3 Tubes)	9000‡	10500	30
Three-Phase Double Y-Parallel (6 Tubes)	9000‡	10500	60
Three-Phase Full Wave (6 Tubes)	9000‡	21000	30

*Per Tube. †Total. ‡Per Leg.

NOTE: For Out-Of-Phase Filament Excitation information see "Maximum Peak Plate Current" and "Maximum Average Plate Current", pp. 3 and 4, "General Information and Application Notes" section, "Mercury Vapor High Voltage RECTIFIER TUBES".



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† These ratios assume that a choke input filter is used to maintain the output current substantially constant.