

ESU872

HALF WAVE MERCURY VAPOUR RECTIFIER

GENERAL		
This directly heated rectifier is designed to withstand high peak inverse voltages and to conduct at relatively low applied vol- tages.		
RATING		
Filament Voltages (volts) Filament Current (amps) Maximum Peak Inverse Anode Voltage (KV) Peak Anode Current (amps) Maximum Mean Anode Current (amps) Condensed Mercury Temperature (°C)	Vf If P.I.V. Ia(pk) Ia(mean)	5.0 7.5 10 5 1.25 20-60
Cathode Heating Delay Time (secs) Voltage Drop (volts)		60
LATING DICH (ACTOR)		15
DIMENSIONS		
Vaximum Overall Length (inches) Vaximum Diameter (inches)		81 2.5/16
BASE Jumbo - filament		
TOP CAP - Anode		
APPLICATION		
When a mercury vapour rectifier is first placed in service, its fliament should be operated at normal voltage for approximately 16 minutes without anode voltage in order to distribute the mercury properly. This procedure need not be repeated unless, during subsequent handling, the mercury is spattered on to the filament and anode.		
Vount the rectifier vertically in a well-ventilated position as the bulb becomes hot during continuous operation. To avoid the possibility of flash-back on reverse voltage, the tamperature of the rectifier bulb at the point where the mercury vapour condenses should not be allowed to exceed 60°C. Where there is a possib- lity of the air temperature rising considerably, an air draught cooling should be used.		
Unless the valve is operated on very light loads, the filament must be allowed to attain its full operating temperature before the anoda voltage is applied, and the Cathode Delay Time should elapse before the anode supply is switched on. A delay switch is recommended for full load operation (see DLS range of swich The filament supply should not be switched off before the H.T. supply.		

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ALL DIMENSIONS IN M.M. UNLESS OTHERWISE STATED

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