

ESU.866

EDISWAN

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HALF-WAVE MERCURY VAPOUR RECTIFIER

RATING

Filament Voltage (volts)	V_f	2.5
Filament Current (amps)	I_f	5.0
Maximum Peak Anode Current (amps)	$I_a(pk)$	1.0
Maximum Peak Inverse Voltage (volts)	P.I.V.(max)	10,000
Maximum Mean Anode Current (amps)	$I_a(av)max$	0.25
Approximate Voltage Drop (volts)	V_{ir}	15
Cathode Delay Time (secs)	t	60
Ambient Temperature (C°)		20-60

DIMENSIONS

Maximum Overall Length (mm)	170
Maximum Diameter (mm)	66
Approximate Nett Weight (ozs)	3
Approximate Packed Weight (lbs)	1½
Approximate Packed Export Weight (lbs)	2

MOUNTING POSITION Vertical

BASE U.X. 4 pin.

TOP CAP Anode

SPECIAL NOTE

When first placed into operation it is essential that the filament is run at the rated value for 15 minutes without any anode voltage being applied.

APPLICATION

The single phase half wave circuit is not favoured on account of the magnitude and frequency of the ripple current which is more difficult to filter than in other systems. Furthermore with choke input the D.C. output voltage will be approximately 0.45 of the transformer r.m.s. voltage. Full wave rectification overcomes the disadvantages of a half wave system and is therefore recommended.

TYPICAL CIRCUITS

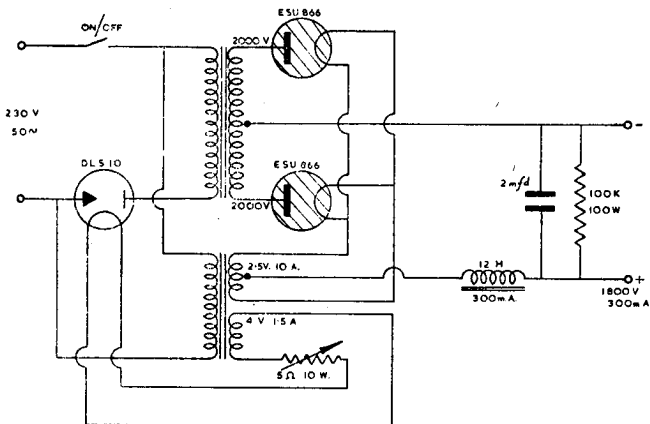
The necessary 60 sec. delay is provided by the DLS.10 which should be connected to a separate winding on filament transformer or to an independent L.V. Transformer. A bleeder resistor should be connected across the output circuit and where possible it should draw 10% of the full load current. This resistor will also discharge the filter condenser(s) on switching off.

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FULL WAVE CIRCUIT TO SUPPLY 1.8 KV AT 300 mA.



BRIDGE RECTIFIER CIRCUIT TO SUPPLY 2.7 K.V. AT 300 mA.

