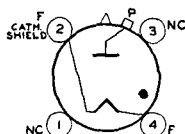


HALF-WAVE MERCURY- VAPOR RECTIFIER

575-A



Coated-filament type used in power supply of transmitting and industrial equipment. Maximum peak inverse anode volts, 15000; maximum average anode amperes, 1.5. Requires

Jumbo four-contact socket and may be mounted in vertical position only, base down. OUTLINE 60, Outlines Section.

FILAMENT VOLTAGE (AC)°	5.0	volts
FILAMENT CURRENT	10.0	amperes
PEAK TUBE VOLTAGE DROP (Approx.)	10	volts

° Filament voltage must be applied at least 30 seconds before application of anode voltage.

HALF-WAVE RECTIFIER—In-Phase Operation

For supply frequency of 60 cps

Maximum Ratings:

PEAK INVERSE ANODE VOLTAGE	10000 max	15000 max	volts
ANODE CURRENT:			
Peak	7 max	6 max	amperes
Average	1.75 max	1.5 max	amperes
Fault, for duration of 0.1 second maximum	100 max	100 max	amperes
CONDENSED-MERCURY-TEMPERATURE RANGE	20 to 60	20 to 50	°C

HALF-WAVE RECTIFIER—Quadrature Operation

For supply frequency of 60 cps

Maximum Ratings:

PEAK INVERSE ANODE VOLTAGE	10000 max	15000 max	volts
ANODE CURRENT:			
Peak	10 max	10 max	amperes
Average	2.5 max	2.5 max	amperes
Fault, for duration of 0.1 second maximum	100 max	100 max	amperes
CONDENSED-MERCURY-TEMPERATURE RANGE	20 to 60	20 to 50	°C

○ Averaged over any interval of 20 seconds maximum.

Operating Values:

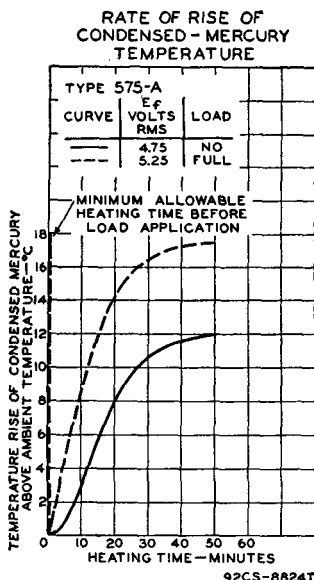
Circuit (For circuit figures, refer to Rectifier Considerations Section)	Fig.	Max. Trans. Sec. Volts (RMS) E	Approx. DC Output Volts To Filler E _{av}	Max. DC Output Amperes I _{av}	Max. DC Output KW To Filler P _{dc}
In-Phase Operation					
Half-Wave Single-Phase...	54	10600●	4800	1.50	7.1
		7000▲	3200	1.75	5.5
Full-Wave Single-Phase...	55	5300●	4800	3.00	14.2
		3500▲	3200	3.50	11.0
Series Single-Phase.....	56	10600●	9600	3.00	28.4
		7000▲	6400	3.50	22.0
Half-Wave Three-Phase...	57	6100●	7200	4.50	32.2
		4000▲	4800	5.25	25.0
Quadrature Operation					
Parallel Three-Phase.....	58	6100●	7200	15.0	108
		4000▲	4800	15.0	72
Series Three-Phase.....	59	6100●	14300	7.5	108
		4000▲	9600	7.5	72
Half-Wave Four-Phase....	60	5300●	6750	9.0* 10.0■	60.8* 67.5■
		3500▲	4500	9.0* 10.0■	40.5* 45.0■
Half-Wave Six-Phase.....	61	5300●	7200	9.5* 10.0■	68.4* 72.0■
		3500▲	4800	9.5* 10.0■	45.6* 48.0■

* For maximum peak inverse anode voltage of 15000 volts and condensed-mercury-temperature range of 20° to 50°C.

▲ For maximum peak inverse anode voltage of 10000 volts and condensed-mercury-temperature range of 20° to 60°C.

* Resistive load.

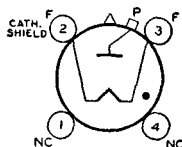
■ Inductive load.



HALF-WAVE MERCURY- VAPOR RECTIFIER

673

Coated-filament type used in power supply of transmitting and industrial equipment. Maximum peak inverse anode volts, 15000; maximum average anode amperes, 1.5. Requires



Super-Jumbo four-contact socket and may be mounted in vertical position only, base down. OUTLINE 62, *Outlines* Section. The 673 is electrically identical with the 575-A.

POWER TRIODE

800

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 60 Mc. Requires Small four-contact socket and may be mounted in vertical position only, base up or down. OUTLINE 38, *Outlines* Section. Filament volts (ac/dc), 7.5; amperes, 3.1. Direct interelectrode capacitances: grid to plate, 2.5 $\mu\mu\text{f}$; grid to filament, 2.8 $\mu\mu\text{f}$;

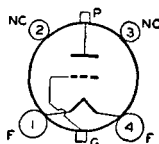


plate to filament, 2.8 $\mu\mu\text{f}$. Maximum CCS ratings as RF POWER AMPLIFIER AND OSCILLATOR: dc plate volts, 1250 *max*; dc grid volts, -400 *max*; dc plate milliamperes, 80 *max*; dc grid milliamperes, 25 *max*; plate input, 100 *max* watts; plate dissipation, 35 *max* watts. Plate shows no color when tube is operated at maximum CCS ratings. The 800 is used principally for renewal purposes.

POWER TRIODE

801-A

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 60 Mc and with reduced input up to 120 Mc. Requires Small four-contact socket and may be mounted in vertical position with base down, or in horizontal position with pins 1 and 4 in vertical plane. OUTLINE 29, *Outlines* Section. The 801-A is used principally for renewal purposes.

