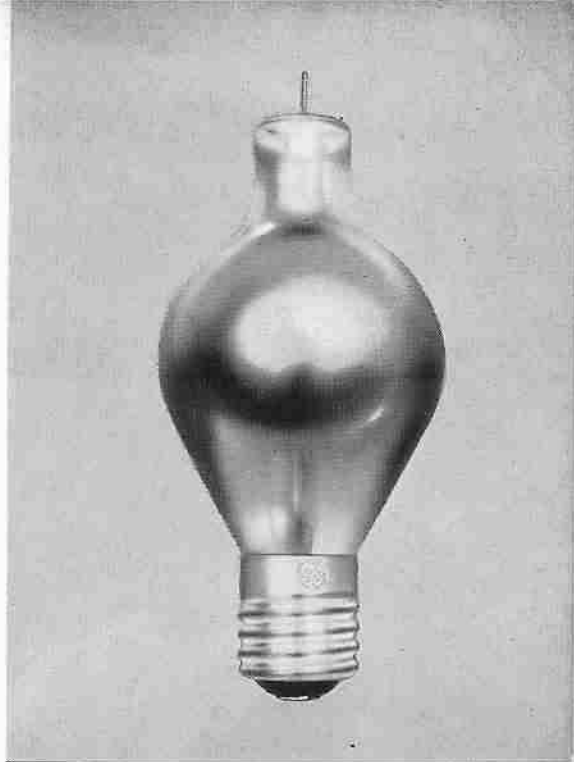


G-E TUNGAR BULB

Cat. No. 217283

Tungar bulb, Catalog 217283, is a half-wave rectifier, suitable for intermediate-voltage application. This bulb is widely used to supply d-c power for the arc in motion picture projectors when two or more bulbs are used. The discharge medium is argon gas.



GENERAL DESIGN

Number of electrodes.....	2
Cat. No. of Socket required, Mogul.....	GE-217967
Cathode—thoriated tungsten filament:	
Voltage.....	2.5 $\pm$ 5%
Current, amperes, approx.....	.25
Pre-heating time recommended, seconds.....	15*
Tube voltage drop, volts d-c:	
Maximum.....	9.0
Minimum.....	5.0
Average during life.....	7.5
Starting (pick-up) voltage, volts d-c:	
Maximum.....	16.0
Minimum.....	8.0
Average during life.....	12.0
Net weight, ounces, approx.....	5 1/2
Shipping weight, ounces, approx.....	.27
Length, inches, approx.....	8 5/8
Diameter, inches, approx.....	3 3/4

RATINGS

• Maximum peak inverse voltage (half-wave circuit), volts.....	225
Maximum anode current:	
Average amperes.....	15.0
Instantaneous (peak) amperes, recurrent.....	90.0
Maximum d-c output, average volts.....	60.0

*For long tube life a pre-heating time of 15 seconds is recommended. Full output can be obtained as soon as power is applied to the anode after the pre-heating time. The recommended tube pre-heating time must be respected and filament excitation must be continuous if guarantees are to apply.

G-E Tungar bulbs operate with very low voltage drop.

G-E TUNGAR BULB FEATURES

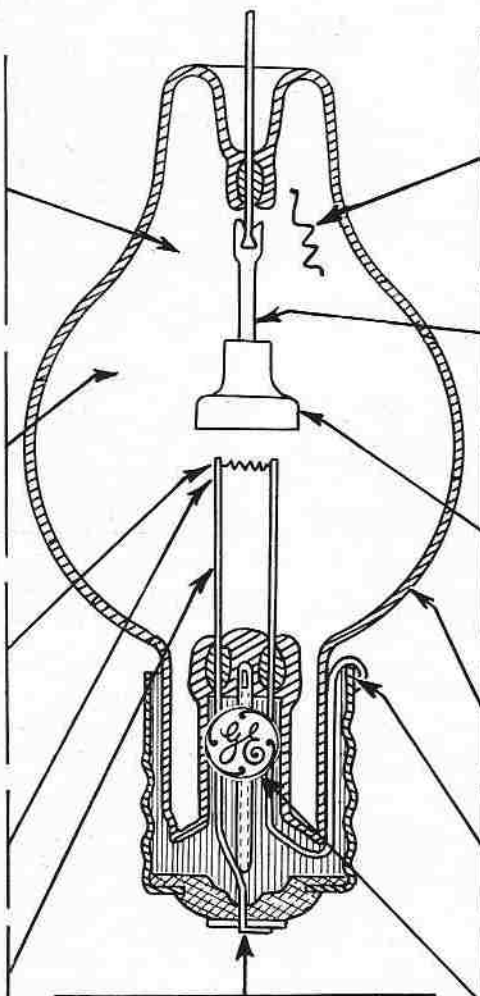
1. Pure Argon Gas—The gas with which Tungar bulbs are filled is over 99.5% pure when purchased. Even this purity cannot insure long life. It is further necessary to subject this argon gas to four different treatments to remove all impurities. The resulting high purity is one of the reasons for the long, efficient life of Tungar bulbs.

2. Gas Remains Pure—The silver-colored magnesium coating on the inside of all Tungar bulbs absorbs any traces of impurities that are given off during the operation of the bulb. This feature also helps to assure long, efficient operation.

3. Long Filament Life—The selected thoriated tungsten wire which forms the filament must pass rigid test specifications. After assembly, the filament is given a special treatment to further assure long, efficient operating life.

4. Strong Filament Construction—Welding the filament to the leads forms a complete union that will withstand high operating temperatures.

5. Rigid Tungsten Leads Are made by our own factory which pioneered the process of making tungsten wire.



12. Welded Base Contact—This provides a more durable and permanent connection than do soldered contacts.

6. Strong Heat-resistant Glass—Only heat-resisting glass is used in Tungar bulb construction. This glass and the tungsten expand and contract at the same rate, thus eliminating in Tungar bulbs the possibilities of breakage due to unequal expansion.

7. Special Threads on Anode and Anode Lead—A uniform low resistance contact is provided by special threads on the anode and anode lead.

8. High-quality Graphite Anode—The graphite used in the anode of Tungar bulbs is selected for its high quality. It is given special high temperature vacuum treatments to enable it to withstand bombardment and be gas-free throughout the life of the bulb.

9. Smooth Bulb Surface—The outside surface of all Tungar bulbs is smooth. Bulbs have no seal-off tip to become broken.

10. Special Basing Compound—The base is held permanently to the bulb by a special basing compound used exclusively by General Electric.

11. The G-E Monogram—Here is assurance that the high quality of Tungar bulbs will be continued and improved as new materials and processes are developed.

The raw materials used in Tungar bulbs are the finest obtainable and are rigidly laboratory tested before being used. This plus the fact that General Electric has had more than 28 years of bulb engineering and manufacturing experience helps to explain why the Tungar bulbs are superior.