



ELECTRONIC TUBE REFERENCE

6512

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Temperature-controlled water-cooled mercury-pool ignitron for high-power industrial rectifier and AC-control service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
PEAK INVERSE VOLTAGE	2100 V
NOMINAL OUTPUT CURRENT	100 A
PEAK FORWARD CURRENT	900 A
Special-purpose data not represented by fixed promoted fields are preserved in TUBE_SECTION_PARAMETER. Ignitron/mercury-pool data semantically matching rectifier inverse-voltage and current fields were promoted; remaining grid, ignitor, auxiliary-anode, thermal, and fault ratings are parameters.	

The GL-6512 is a sealed steel-jacketed, water-cooled mercury-pool ignitron for 125-, 250-, 600-, and 900-volt DC rectifier fields and 2400-volt AC control service. It is electrically equivalent to the GL-5554/FG-259-B and adds integral temperature-control and protection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Like its prototype the GI	6512 C	designed for rectifier service in the 125-, 250-, 600-, and 900-volt d-c power fields,
Net Weight	13.5 lb	designed for rectifier service in the 125-, 250-, 600-, and 900-volt d-c power fields,
Inlet Water Temperature minimum	0 C	designed for rectifier service in the 125-, 250-, 600-, and 900-volt d-c power fields,
Peak Inverse Anode Voltage	2100 V	. Power-Rectifier Service
Voltage	2400 V	AC Control Service
Water Temperature Rise maximum	6 C	AC Control Service
Pressure Drop at	3 lb	AC Control Service
Voltage	2400 V	AC Control Service ¢
Maximum Demand	1200 kVA	AC Control Service ¢
Maximum Averaging Time at	2400 V	AC Control Service ¢
Negative	5 V	AC Control Service ¢
Peak	100 A	AC Control Service ¢
Root Mean Square	15 A	AC Control Service ¢
Average	2 A	AC Control Service ¢
Maximum Averaging Time	10 s	AC Control Service ¢
At Anode Voltage of	600 V	AC Control Service ¢
At Anode Voltage of	601 V	AC Control Service ¢
At Anode Voltage of	1001 V	AC Control Service ¢
At Anode Voltage of	1501 V	AC Control Service ¢
At Anode Voltage of	2001 V	AC Control Service ¢

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Forward Voltage	160 V	AC Control Service ¢
Peak	30 A	AC Control Service ¢
Average	9 A	AC Control Service ¢
Maximum Voltage	575 V	AC Control Service ¢
Above Ground	1500 V	AC Control Service ¢

TUBE TINKER

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