

ELECTRONIC TUBE REFERENCE

6347

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled mercury-pool ignitron for resistance-welding control and intermittent high-current rectifier 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	500 V
NOMINAL OUTPUT CURRENT	100 A
PEAK FORWARD CURRENT	1600 A
<i>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.</i>	

The GL-6347 is a sealed stainless-steel-jacketed, water-cooled mercury-pool ignitron especially suited to resistance-welding control. It handles very high peak currents for short periods and includes an integral temperature-control arrangement.

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
Ignitor voltage required to fire L	200 V	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
Net welght oe	8 lb	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
Inlet water temperature MIDIMUM ettt e	10 C	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
Water flow minimum solenoid water valve open it	1.5 gal/min	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
Water temperature rise MAXIUTIOINL otth it te et i et et iae e neeeenn	6 C	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
Pressure drop at	1.5 gal/min	ly suited to resistance-welding-control service. In to remove power from the ignitron when its tem-
B R T	500 V	—
Forward e e e e e e e e e e e	500 V	—
PEaK	1600 A	—
AV ETAB oo ittt i e e e	100 A	—
Maximum averaging time oo i i i e	6 s	—
Maximum Qemand e e e e e	1200 kVA	Resistance-welding-control service®
Maximum averaging time at	600 V	Resistance-welding-control service®
Maximum averaging time at	250 V	Resistance-welding-control service®

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
gativ e L e e e e e	5 V	—
Peak e	100 A	—
R00t Mean SQUARE otte et e e	10 A	—
AVEIAZE o e	1 A	—
Maximum AvVeraging time i e e e	5 s	—
Above ground e e	1500 V	—

TUBE TINKER

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