

Water-cooled ignitron for welder-control and intermittent rectifier service. Its mercury-pool discharge handles extremely high current.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
PEAK INVERSE VOLTAGE	500 V
NOMINAL OUTPUT CURRENT	40 A
PEAK FORWARD CURRENT	700 A
FORWARD VOLTAGE DROP	12 V
Ignitron. Intermittent-rectifier service values promoted; welder-control values preserved as parameters.	

The FG-271 is a steel-jacketed water-cooled ignitron for resistance-welder-control and intermittent rectifier applications.

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
Welder Maximum Demand	600 kVA	WelderControl 250to600Vrms
Welder Maximum Average Anode Current	56 A	WelderControl
Rectifier Surge Anode Current	8000 A	IntermittentRectifier 0.15Second

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignitor Required Positive Voltage	200 V	Ignition
Ignitor Required Current	30 A	Ignition