

ELECTRONIC TUBE REFERENCE

5554

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled Amperex ignitron designed for welding-control and continuous rectifier service, providing high-current controlled mercury-pool conduction for industrial power equipment.

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
No fixed ratings recorded.
Water-cooled Amperex ignitron for welding-control and continuous rectifier service; 5554 is the base designation on the supplied page.

5554 is a Other device in the supplied Amperex literature. Water-cooled Amperex ignitron for welding-control and continuous rectifier service; 5554 is the base designation on the supplied page. Published ratings, operating points, capacitances, pulse data, or industrial service limits were preserved in the technical output as applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Welder-control RMS voltage range	2400 V	WeldingControl
Maximum KVA demand	1200 kVA	WeldingControl
Corresponding average current	75 A	WeldingControl
Maximum average-current demand	600 kVA	WeldingControl
Corresponding maximum average current	113 A	WeldingControl
Typical DC output voltage	300 V	ContinuousRectifier; SixPhaseDoubleYSingleWay
Maximum peak inverse and forward voltage	2100 V	ContinuousRectifier; DCOutput=300V
Maximum peak anode current	900 A	ContinuousRectifier; DCOutput=300V
Maximum continuous average anode current	100 A	ContinuousRectifier; DCOutput=300V
Maximum one-minute average current	200 A	ContinuousRectifier; DCOutput=300V
Typical DC output voltage	600 V	ContinuousRectifier; SixPhaseDoubleYSingleWay
Maximum peak inverse and forward voltage	2100 V	ContinuousRectifier; DCOutput=600V
Maximum peak anode current	600 A	ContinuousRectifier; DCOutput=600V
Maximum continuous average anode current	75 A	ContinuousRectifier; DCOutput=600V
Maximum one-minute average current	150 A	ContinuousRectifier; DCOutput=600V

TUBE TINKER

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