

ELECTRONIC TUBE REFERENCE

PL5552A

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled ignitron for single-phase welding control with provision for thermostatic protection.

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 ignitron for single-phase welding control with provision for thermostatic protection.

Water-cooled ignitron for single-phase welding control with provision for thermostatic protection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V3

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V3

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pi (q	0.35 kg/cm2	Typical characteristics Pi (q = 6 l/min.) = max. 0.35 kg/cm2
Mains voltage	250 V	Limiting values 4) For mains voltages between 250 V and 600 V. Tav is
Mains voltage	600 V	Limiting values 4) For mains voltages between 250 V and 600 V. Tav is
Va fwd p max	500 V	Intermittent rectifier service Va fwd p max. 500V
Va iv p = max	500 V	Intermittent rectifier service Va iv p = max. 500 V
Iap = max	1600 A	Intermittent rectifier service Iap = max. 1600 A
Anode current	100 A	Intermittent rectifier service Ia = max. 100A
Iav = max	6 s	Intermittent rectifier service Iav = max. 6 sec
Tension d'amorçage = max	200 V	Ignitor characteristics Tension d'amorçage = max. 200 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Firing current	-8 A	Ignitor characteristics Firing current 6-8 A
Vc{ Dens lea conditions de fonctionnement	50 V	Ignitor characteristics Vc{ Dens lea conditions de fonctionnement 650*50 V

1999 Philips E-Z

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

1999 PHILIPS E-Z
Section 1 · IgnitronPowerSwitch

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1)When the cooling systems of the tubes are connected in	1 W	1)When the cooling systems of the tubes are connected in
Ignitor connector. Unfolded length 330 mm	330 nf	Ignitor connector. Unfolded length 330 mm
*) For mains voltages between 250 V and 600 V, Tav is	600 ma	*) For mains voltages between 250 V and 600 V, Tav is
Ignitor; Electrode 4'amorcage; Zindelegktrode	4 a	Ignitor; Electrode 4'amorcage; Zindelegktrode
Ohmic resistance of series inductance (1 mH)	1 Ohm	Ohmic resistance of series inductance (1 mH)
Ohmic resistance of 60 pH inductance	60 Ohm	Ohmic resistance of 60 pH inductance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
2) Max. average current of each tube at max. demand	2 Ma	2) Max. average current of each tube at max. demand
time of max. 100 psec, di/dt	0.12 ma	time of max. 100 psec, di/dt = min. 0.12 A/psec)
time of max. 100 psec, di/dt	0.12 ma	time of max. 100 psec, di/dt = min. 0.12 A/usec)

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)