

Water-cooled very-high-current mercury-pool ignitron of the 5555/653B welder-control family.

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	200 A
PEAK FORWARD CURRENT	9000 A
Water-cooled ignitron/mercury rectifier represented by the 5555/653-series source row for high-current welder and rectifier service.	

Water-cooled very-high-current ignitron corresponding to the 5555/653B welder-control family.



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
RMS voltage range	2400 V	WelderControl
Maximum KVA demand	2400 kVA	WelderControl
Corresponding average current	135 A	WelderControl
Maximum average-current KVA demand	1105 kVA	WelderControl
Maximum average current	207 A	WelderControl
Typical DC output voltage	300 V	SixPhaseDoubleY
Peak inverse/forward voltage	2100 V	Rectifier
Peak anode current	1800 A	Rectifier 300V
Continuous average anode current	200 A	Rectifier 300V
One-minute average current	400 A	Rectifier 300V



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS voltage range	2400 V	Ignitron;WelderControl
Maximum KVA demand	2400 kVA	Ignitron;WelderControl
Corresponding average current	135 A	Ignitron;WelderControl
Maximum average-current corresponding KVA demand	1105 kVA	Ignitron;WelderControl
Corresponding current	207 A	Ignitron;WelderControl
Cooling	Water	Ignitron