



ELECTRONIC TUBE REFERENCE

345A

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Western Electric indirectly heated full-wave high-vacuum rectifier for power-supply service. Rated for approximately 1.375 kV peak inverse voltage and about 330 mA maximum average DC output from a 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1375 V
NOMINAL OUTPUT CURRENT	330 mA
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
Representative row for two identical diode sections; published maximum total rectified current is 100 mA.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1375 V
NOMINAL OUTPUT CURRENT	330 mA
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
Second physical rectifier section; electrical properties populated from the documented identical section.	

The Western Electric 345A is an indirectly heated full-wave high-vacuum rectifier with a 6.3 V, 1.0 A heater and approximately 330 mA maximum average output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Anode Voltage	1375 V	—
Maximum Average Output Current	330 mA	FullWaveRectifier

1956 WESTERN ELECTRIC TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Anode Voltage	1375 V	—
Maximum Average Output Current	330 mA	FullWaveRectifier



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS alternating voltage per plate maximum choke-input	400 V	ChokeInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS alternating voltage per plate maximum condenser-input	350 V	CapacitorInputFilter
Maximum total rectified current	100 mA	—
Maximum filter input capacitance	4 uF	CapacitorInputFilter

2026 WESTERN ELECTRIC 300S

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS alternating voltage per plate maximum choke-input	400 V	ChokeInputFilter
RMS alternating voltage per plate maximum condenser-input	350 V	CapacitorInputFilter
Maximum total rectified current	100 mA	—
Maximum filter input capacitance	4 uF	CapacitorInputFilter

TUBE TINKER

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

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