

ELECTRONIC TUBE REFERENCE

422A

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Western Electric indirectly heated double-diode rectifier for full-wave DC power supplies. Its robust five-volt heater and substantial current capability suit professional high-voltage power-supply service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1800 V
NOMINAL OUTPUT CURRENT	400 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	26 V
Representative row for two identical rectifier sections; 0.9 A is published steady-state peak plate current per plate.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1800 V
NOMINAL OUTPUT CURRENT	400 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	26 V
Second physical rectifier section; electrical properties populated from corresponding identical section.	

Western Electric 422A is a double diode with indirectly heated cathodes for full-wave rectification and DC power supply service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transient peak plate current per plate	4 A	—
Minimum effective plate supply impedance per plate	100 ohm	—
Typical DC output current	350 mA	FullWave
Typical DC output voltage	360 V	FullWave
Minimum input choke	10 H	ChokeInputFilter

2026 WESTERN ELECTRIC 400S

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transient peak plate current per plate	4 A	—
Minimum effective plate supply impedance per plate	100 ohm	—
Typical DC output current	350 mA	FullWave
Typical DC output voltage	360 V	FullWave
Minimum input choke	10 H	ChokeInputFilter