



ELECTRONIC TUBE REFERENCE

68504

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave Tungar hot-cathode gas-discharge rectifier for low-voltage battery charging. Its heavy filament construction provides approximately 5 A rectified output with a characteristic conducting drop around 10 V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.3 V / 18 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
NOMINAL OUTPUT CURRENT	5 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	30 s
Full-wave rectifier represented as two identical rectifying sections sharing the filament/cathode; one representative section row emitted.	

SECTION2 Rectifier	
NOMINAL OUTPUT CURRENT	5 A
FORWARD VOLTAGE DROP	10 V
WARM-UP TIME	30 s
Second physical rectifier section; electrical properties populated from applicable published ratings.	

Full-wave Tungar hot-cathode gas-discharge rectifier for low-voltage battery charging equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.3 V	—
Filament current	18 A	Nominal; source gives ± 2 A
Minimum cathode heating time	30 s	—
DC output voltage	30 V	FullWave
DC output current	5 A	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Approximate voltage drop	10 V	—

1971 ENGLISH ELECTRIC VALVE

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.3 V	—
Filament voltage	2.3 V	—
Filament voltage	2.3 V	—
Filament current	18 A	Nominal; source gives ± 2 A
Filament current	18 A	Nominal; source gives ± 2 A
Filament current	18 A	Nominal; source gives ± 2 A
Minimum cathode heating time	30 s	—
Minimum cathode heating time	30 s	—
Minimum cathode heating time	30 s	—
DC output voltage	30 V	FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output voltage	30 V	FullWave
DC output voltage	30 V	FullWave
DC output current	5 A	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Approximate voltage drop	10 V	—
Approximate voltage drop	10 V	—
Approximate voltage drop	10 V	—

TUBE TINKER

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