



ELECTRONIC TUBE REFERENCE

1174

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated Philips mercury-vapour or gas-filled industrial rectifier for large battery-charging installations up to about 110 lead-acid cells. Rated for approximately 850 V peak inverse voltage and 6 A output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	SPECIAL 3P	BASE PINS	—
NOMINAL HEATER	1.9 V / 18 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	850 V
NOMINAL OUTPUT CURRENT	6 A
PEAK FORWARD CURRENT	30 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	60 s
Directly heated gas-filled rectifier with mercury-vapour/gas filling for industrial rectifier service up to 110 lead-acid cells.	

1174 is a directly heated industrial rectifier. Directly heated gas-filled rectifier with mercury-vapour/gas filling for industrial rectifier service up to 110 lead-acid cells.



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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop	12 V	GasFilled

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse anode voltage	850 V	—
Maximum average anode current	6 A	—
Maximum peak anode current	30 A	—
Maximum surge current	300 A	ShortDuration
Application	industrial rectifier service up to 110 lead-acid cells	—
Heater voltage	1.9 V	DirectAC
Heater current	18 A	DirectAC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapour and gas	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage	12 V	—
Ignition voltage	22 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	850 V	—
Maximum peak current	36 A	—

TUBE TINKER

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and their source documents.

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