



ELECTRONIC TUBE REFERENCE

1010

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated Philips gas-filled industrial rectifier for charging lead-acid batteries. Rated for approximately 185 V peak inverse voltage, 650 mA average current, and 4 A peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.9 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	185 V
NOMINAL OUTPUT CURRENT	650 mA
PEAK FORWARD CURRENT	4 A
FORWARD VOLTAGE DROP	9 V
WARM-UP TIME	15 s
Directly heated gas-filled rectifier for battery charging up to 20 lead-acid cells.	

1010 is a directly heated industrial rectifier. Directly heated gas-filled rectifier for battery charging up to 20 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	9 V	GasFilled

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse anode voltage	185 V	—
Maximum average anode current	650 mA	—
Maximum peak anode current	4 A	—
Application	battery charging up to 20 lead-acid cells	—
Heater voltage	1.9 V	DirectAC
Heater current	3.5 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumSeriesResistance	10 ohm	—
NominalBatteryVoltage	44 V	BatteryCharger
NominalOutputCurrent	1.2 A	BatteryCharger

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TypicalArcVoltage	9 V	—
IgnitionVoltage	16 V	—

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