

ELECTRONIC TUBE REFERENCE

1119

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated Philips gas-filled industrial rectifier for charging batteries of up to about twelve lead-acid cells. Rated for approximately 140 V peak inverse voltage and 1.5 A nominal output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.9 V / 5.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	140 V
NOMINAL OUTPUT CURRENT	1.5 A
PEAK FORWARD CURRENT	9 A
FORWARD VOLTAGE DROP	9 V
WARM-UP TIME	30 s
Directly heated gas-filled rectifier for battery charging up to 12 lead-acid cells.	

1119 is a directly heated industrial rectifier. Directly heated gas-filled rectifier for battery charging up to 12 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	140 V	—
Maximum average anode current	1.5 A	—
Maximum peak anode current	9 A	—
Application	battery charging up to 12 lead-acid cells	—
Heater voltage	1.9 V	DirectAC
Heater current	5.5 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	1.8 ohm	—
NominalBatteryVoltage	26 V	BatteryCharger
NominalOutputCurrent	3 A	BatteryCharger

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