



ELECTRONIC TUBE REFERENCE

DA1212000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Philips water-cooled directly heated high-vacuum rectifier for very-high-power DC supplies. Its heavy filament construction supports approximately 6-12 kV RMS anode service and 1 A mean rectified current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 38.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PLATE RESISTANCE	300 Ω
MAXIMUM PLATE DISSIPATION	12000 W
NOMINAL OUTPUT CURRENT	1 A
<i>Published ratings and characteristics promoted where a locked-schema field is semantically applicable; additional values retained as parameters.</i>	

Philips DA1212000 is a directly heated high-vacuum rectifier with a 22 V, 38.5 A filament. Published service covers 6000-12000 V RMS anode voltage and 1000 mA mean rectified current, with 12000 W allowable anode dissipation. Water-cooled anode construction permits very high dissipation.

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

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Saturation current	5000 mA	Published datasheet value
Saturation voltage	1500 V	Published datasheet value
Internal resistance	300 Ω	Published datasheet value
Cooling method	water circulation	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation	—12000 W	Published datasheet value
Anode dissipation test value	15000 W	Published test value
RMS anode A.C. voltage range	6000–12000 V	Published datasheet value
D.C. output voltage range	6000–12000 V	Published datasheet value
Mean rectified D.C. current	—1000 mA	Published datasheet value
Useful D.C. output power	12000 W	Published datasheet value

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