ELECTRONIC TUBE REFERENCE

DA1224000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Philips water-cooled directly heated high-vacuum rectifier for extremely high-power DC supplies. Its heavy filament construction supports approximately 6–12 kV RMS anode service and 2 A mean rectified current.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	21.5 V / 76 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Rectifier

PLATE RESISTANCE	125 Ω
MAXIMUM PLATE DISSIPATION	12000 W
NOMINAL OUTPUT CURRENT	2 A

Published ratings and characteristics promoted where a locked-schema field is semantically applicable; additional values retained as parameters.

Philips DA1224000 is a directly heated high-vacuum rectifier with a 21.5 V, 76 A filament. Published service covers 6000–12000 V RMS anode voltage and 2000 mA mean rectified current, with 12000 W allowable anode dissipation. Water-cooled anode construction permits very high dissipation.

SOURCE OPERATING CONDITIONS

1999 Philips 0-D

SOURCE PDF

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	**10000 mA**	Published datasheet value
Internal resistance	**125 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	**——2000 mA**	Published datasheet value
Useful D.C. output power	**24000 W**	Published datasheet value

TUBE TINKER

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