



ELECTRONIC TUBE REFERENCE

GU2021

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Mercury-vapor half-wave rectifier for high-voltage industrial power conversion, using low arc voltage to provide efficient current handling in substantial DC supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 11 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	13000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
WARM-UP TIME	1800 s
Mercury-vapor rectifier; highest published rectifier ratings promoted.	

The Marconi GU2021 is a directly heated half-wave mercury-vapor power rectifier.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	4 V	—
Filament current	11 A	—
Peak inverse voltage	13000 V	—
Peak cathode/anode current	5 A	—
Average cathode current	1.25 A	—
Minimum seasoning/preheat time	1800 s	—
Single-phase full-wave output voltage	8 kV	—
Single-phase full-wave output current	2.5 A	—
Three-phase full-wave output voltage	12.4 kV	—
Three-phase full-wave output current	3.75 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapor	—

TUBE TINKER

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