

ELECTRONIC TUBE REFERENCE

GU8

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Marconi directly heated mercury-vapor half-wave power rectifier for higher-voltage service, providing approximately 22 kV inverse-voltage capability and 4 A average output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.35 V / 40 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	22000 V
NOMINAL OUTPUT CURRENT	4 A
PEAK FORWARD CURRENT	16 A
WARM-UP TIME	1800 s
Mercury-vapor rectifier; highest published rectifier ratings promoted.	

The Marconi GU8 is a directly heated half-wave mercury-vapor power rectifier for higher-voltage service.

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	2.35 V	—
Filament current	40 A	—
Peak inverse voltage	22000 V	—
Peak cathode/anode current	16 A	—
Average cathode current	4 A	—
Minimum seasoning/preheat time	1800 s	—
Single-phase full-wave output voltage	14 kV	—
Single-phase full-wave output current	8 A	—
Three-phase full-wave output voltage	20 kV	—
Three-phase full-wave output current	12 A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapor	—