



ELECTRONIC TUBE REFERENCE

HG25

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated mercury-vapor half-wave rectifier for high-current, high-voltage supplies. Its gas-assisted conduction provides moderate current at multi-kilovolt voltage with low arc drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	10 A
WARM-UP TIME	30 s
<i>Published Ferranti ratings and characteristics promoted where applicable; additional electrical, pulse, regulator, microwave, and operating data retained as parameters.</i>	

Directly heated mercury-vapour rectifier for high-current high-voltage power supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Rectifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mercury-vapour rectifier	Yes	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum natural ventilation	10 kV	—
Peak anode current maximum	10 A	—
Average anode current maximum	250 mA	—
Cathode heating delay minimum	30 s	—
Supply frequency	50 Hz	ChokeInputFilter
DC output - bi-phase half- wave 2 valves	3.2 kV at 0.5 A	TwoTubes
DC output - 3-phase half- wave 3 valves	4.5 kV at 0.75 A	—
DC output - single-phase full-wave 4 valves	6.5 kV at 0.5 A	—
DC output - 3-phase full- wave 6 valves	9.5 kV at 0.75 A	—
DC output - 3-phase half- wave double-Y 6 valves	4.5 kV at 1.5 A	—