



ELECTRONIC TUBE REFERENCE

AH205

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Hot-cathode mercury-vapor half-wave rectifier, also designated 857B/CV2673, for high-voltage power conversion with approximately 10 A average output capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 30 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	22000 V
NOMINAL OUTPUT CURRENT	10 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	15 V
WARM-UP TIME	120 s
<i>Mercury-vapor rectifier; highest explicit rectifier ratings promoted.</i>	

Hot-cathode mercury-vapour rectifier AH205/857B, service type CV2673, rated to 22 kV peak inverse voltage and 40 A peak current.

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	5 V	—
Filament current	30 A	—
Peak inverse voltage	22000 V	—
Peak anode current	40 A	—
Average anode current	10 A	—
Minimum pre-heating time	120 s	—
Maximum DC output voltage	10.5 kV	3PhaseHalfWave
Maximum DC output current	30 A	3PhaseHalfWave
Maximum DC output voltage	21 kV	3PhaseFullWave
Maximum DC output current	30 A	3PhaseFullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward arc voltage drop	15 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapor	—
Cooling	Air blast / source-specified thermal control	—

TUBE TINKER

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and their source documents.

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