



ELECTRONIC TUBE REFERENCE

875A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Taylor mercury-vapor half-wave rectifier with processed carbon anode for broadcast and commercial supplies. Its heavy filament provides substantial high-voltage current with low arc drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	15000 V
NOMINAL OUTPUT CURRENT	1.5 A
PEAK FORWARD CURRENT	6 A
<i>Promoted values are from the printed Taylor ratings/characteristics on the approved one-page source; values not published in that source remain unpromoted.</i>	

Taylor 875-A is a broadcast/commercial half-wave mercury-vapor rectifier using a processed carbon anode and shield, with 15 kV peak-inverse-voltage capability under the stated mercury-temperature condition.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 Taylor Tubes

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

1940 TAYLOR TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	15000 V	CondensedMercuryTemperature=20-50C
Peak inverse voltage	10000 V	CondensedMercuryTemperature=20-60C
RMS AC input voltage	5300 V	SinglePhaseFullWaveTwoTubes
Maximum DC output voltage	4750 V	SinglePhaseFullWaveTwoTubes
Maximum DC output current	3 A	SinglePhaseFullWaveTwoTubes
RMS AC input voltage	10600 V	SinglePhaseBridgeFourTubes
Maximum DC output voltage	9500 V	SinglePhaseBridgeFourTubes
Maximum DC output current	3 A	SinglePhaseBridgeFourTubes
RMS AC input voltage	6120 V	ThreePhaseHalfWaveThreeTubes
Maximum DC output voltage	7150 V	ThreePhaseHalfWaveThreeTubes
Maximum DC output current	4.5 A	ThreePhaseHalfWaveThreeTubes
RMS AC input voltage	6120 V	ThreePhaseParallelDoubleYSixTubes
Maximum DC output voltage	7150 V	ThreePhaseParallelDoubleYSixTubes
Maximum DC output current	9 A	ThreePhaseParallelDoubleYSixTubes
RMS AC input voltage	6120 V	ThreePhaseFullWaveSixTubes
Maximum DC output voltage	14300 V	ThreePhaseFullWaveSixTubes
Maximum DC output current	4.5 A	ThreePhaseFullWaveSixTubes