

A.P.71790 POWER UNIT, VARIABLE VOLTAGE (0 TO 500V D.C.)
CT397

(Joint-Services Designation: Power Unit Variable Voltage (0 to 500V D.C.) CT397)

SUMMARY OF DATA

PURPOSE

To provide a simple power supply for use in maintenance and testing of radio equipment.

BRIEF DESCRIPTION

The Unit consists of a C-core transformer feeding a conventional full wave valve rectifier and smoothing circuit. A half wave rectifier circuit provides a negative voltage w.r.t. h.t. negative. A potentiometer network connected between the h.t. positive and this negative line enables a variable control voltage to be applied to the grids of a pair of cathode follower valves in parallel which forms the output circuit for the main rectifier. Terminal voltage and load current can be measured on a built-in meter. A 6.3V, 3A centre-tapped output is also provided.



POWER UNIT CT397

PERFORMANCE

D.C. Output Voltage	0 to 500V positive or negative w.r.t. earth
D.C. Output Current	100 mA at potentials from 0-350V, thereafter reducing as follows:-
	60 mA at 400V
	20 mA at 450V
	0 mA at 500V
A.C. Output	6.3V, 3A, centre tapped
Ripple on D.C. Output	150 mV r.m.s.
D.C. Output Resistance	10 mA to 100 mA, approx. 700 ohms

POWER REQUIREMENTS AND CONSUMPTION:

90, 100, 105, 110, 115, 120, 130, 200, 210, 215, 220, 225, 230 or 240V, $\pm 7\%$ 40 to 60 c/s and 400 c/s
Consumption 140 VA at full load

PHYSICAL DATA

Height 12 $\frac{1}{2}$ in. Width 12 $\frac{1}{2}$ in. Depth 8 in. Weight 38 lb

HANDBOOK

B.R.1771(27)

ESTABLISHMENT LIST

E1115

PRODUCTION SPECIFICATION

17787