

TRANSPORTABLE RECTIFIERS, TYPES 37 and 37A



Ref. No. ... 5P/2908 and 3234
Dimensions ... 3ft. $\times$ 2 ft. 3 in. $\times$ 3ft. 8 in. (approx)
Associated publication A.P.4343G, Vol. 1, Sect. 8, Chap. 1

BRIEF DESCRIPTION

The type 37 and 37A rectifiers are designed to be operated from 400V., 3-phase, 50 c/s mains to provide direct current at 28 to 30 volts for the servicing of electrical and radio equipment and for the starting of piston-type aero-engines. The two types of rectifier are constructionally identical but the Type 37A embodies a modified transformer which has slightly different input and output voltages and a greater intermittent output current. The Type 37 may be operated on inputs between 380 and 420 volts at a maximum ambient temperature of 45 deg. C. and has a continuous rating of 200 A. but will deliver up to 750 A. for very short periods. The Type 37A is designed for inputs of 399 to 449 volts and has a maximum continuous rating of 200 A. at 27 to 29 volts but is capable of producing up to 1,500 A. for short periods. These high intermittent currents enable the rectifiers to cope with the initial loading imposed when starting piston-type aero-engines.

The rectifiers are controlled by two rotary switches, a mains switch of the 3-pole, make and break type, and a four-position output switch which provides the output voltages as shown below:—

Switch position	Type 37 rectifier		Type 37A rectifier	
	at 200A.	no load	at 200 A.	no load
1	25.8	28.2	24.2	26.6
2	27.5	30	25.9	28.2
3	29	31.5	28	30
4	31	33.5	29	32

RESTRICTED