

MODEL PS75 POWER SUPPLY

DESCRIPTION.

The PS75 is a high current, 13.6 VDC power supply for use with solid state transceivers in CW or SSB modes. The supply operates from a primary voltage of 100, 120, 200 or 240 VAC, 50-60 Hz (switch programmed), and provides 15 amperes continuous at an unregulated voltage of 13.6 VDC (nominal) for use with solid state power amplifiers and a 3 ampere regulated output for use with the remainder of the transceiver. In addition, a regulated 13.6 VDC at 1 ampere is provided for auxiliary equipment.

The supply was designed primarily for SSB operation at current levels of 15 amperes average and 25 amperes peak but will also provide reliable performance on CW at current levels of up to 25 amperes. Some CW signal quality degradation due to the increased ripple may be noticed at CW power levels which exceed 15 amperes current drain (usually about 75 watts).

The primary and the high current unregulated output are fused at the rear panel and the regulated output is protected with a fuse located on the printed circuit board inside the unit. See schematic for proper fuse style and value. The supply is fitted with connectors that mate with the Drake TR7 transceiver.

LINE VOLTAGE PROGRAMMING.

The PS75 is factory set for 120 VAC operation. To change the primary input range, remove the four screws holding the programming plate. Place the voltage switch in the desired range, 100-120 or 200-240, and the Hi/Lo switch in the desired position to provide either 100, 120, 200, or 240 volt operation. Position the switch plate so that the desired voltage is visible in the opening and reinstall the four screws. Install proper fuse for operating voltage.

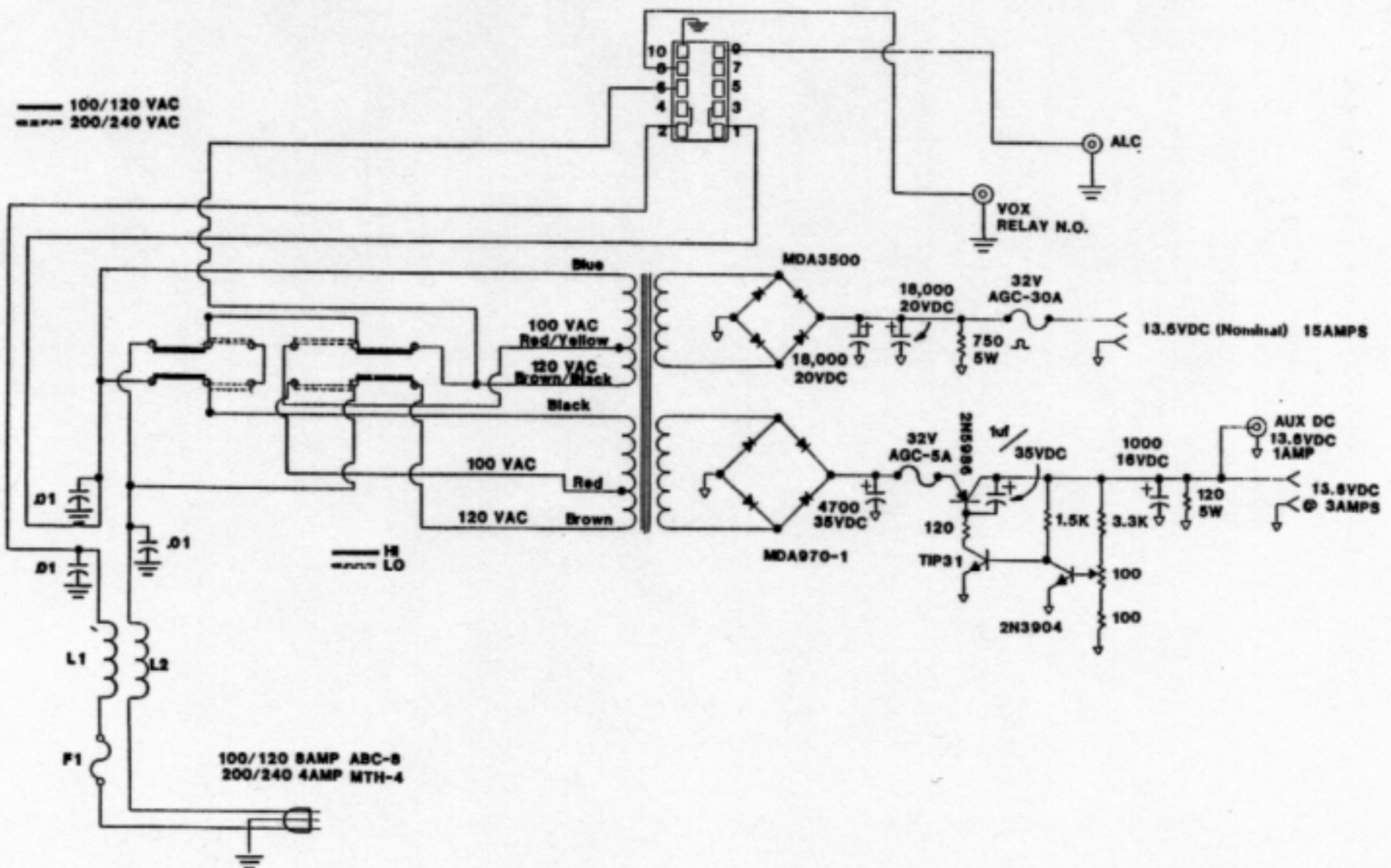
LINEAR AMPLIFIER.

VOX and ALC connections for use with a linear amplifier are provided on the rear panel of the PS75.



SPECIFICATIONS.

AC Input:	100, 120, 200, or 240 VAC ± 10% 50-60 Hz
DC Output:	13.6 VDC (nominal) Unregulated @ 15 amps Continuous, 25 amps intermittent
DC Aux Volts:	13.6 VDC Regulated @ 3 amps
Connectors:	AUX DC — Phono Jack ALC — Phono Jack VOX — Phono Jack Ground Connection
Dimensions:	Width = 9-5/8" (24.4 cm) Height = 5-1/6" (12.8 cm) Depth = 10-7/8" (27.6 cm)
Weight:	20-1/2 lbs. (9.3 kg)



PS75 Schematic Diagram