

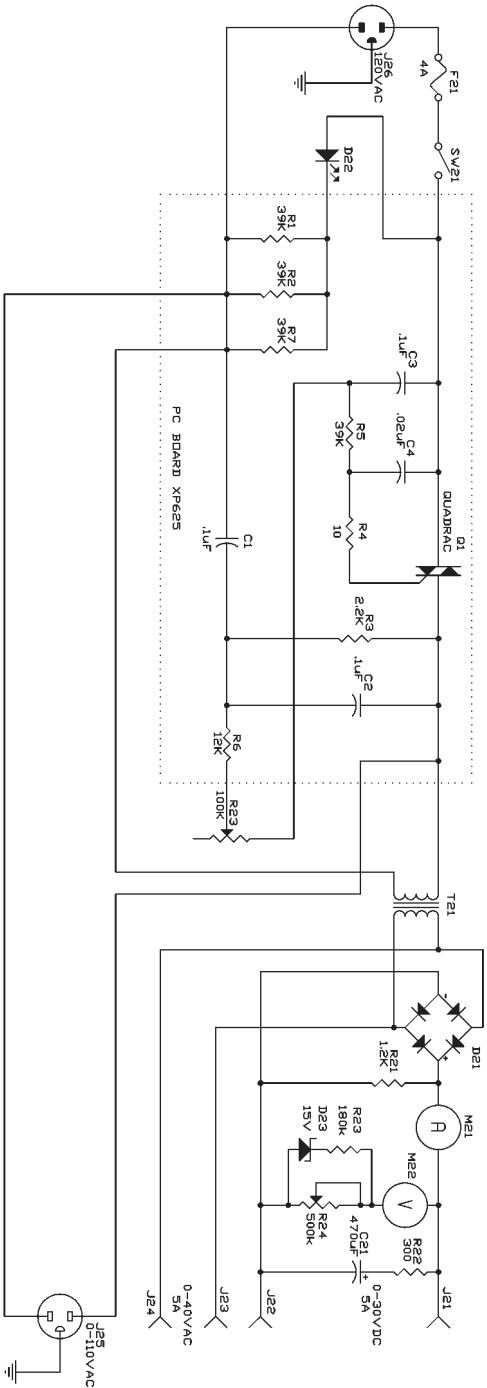
AC/DC Variable Power Supply

Instruction Manual

Model XP-625



SCHEMATIC DIAGRAM



AC/DC Variable Power Supply Model XP-625

INTRODUCTION

The XP-625 contains three voltages: 0-30VDC @ 5A, 0-40VAC @ 5A, and 0-110VAC @ 2.5A. All three supplies are controlled by the voltage adjust knob on the front panel. The unit contains a volt and amp meter. The volt meter is used for both 30VDC and 40VAC output voltages. The amp meter only registers the DC output current. The outputs are fuse protected from overload or shorting.

SAFETY PRECAUTIONS

CAUTION: When removing the cover, always disconnect the power cord from the AC socket. Service repair should be done by qualified personnel who are knowledgeable of electrical hazards.

Certain safety precautions must be observed when this power supply is used with external circuits that are connected to AC power lines. There is always some danger when working with electrical equipment or circuits that operate at hazardous voltages. You should thoroughly familiarize yourself with the equipment before working on it. High voltages may appear at unexpected points in defective equipment.

The XP-625 is equipped with a three-wire line cord which grounds the chassis to the power line ground. **DO NOT CUT OFF OR DISABLE THE GROUND PLUG.**

SPECIFICATIONS

Input

Input Voltage 120VAC, 60Hz
Current Protection 4A fuse

40VAC

Output Voltage 0-40VAC
Output Current 5A max.

Output

30VDC

Output Voltage 0-30VDC
Output Current 5A max.

110VAC

Output Current 2.5A max.
Output Voltage 0-110VAC

TWO YEAR WARRANTY

All Elenco® models are guaranteed for two full years on all parts and service. For the first 3 months, your power supply is covered at absolutely no charge. For the remaining 21 months, a nominal service charge is required to cover shipping and handling.

When returning merchandise for repair, please include proof of purchase, a brief letter of explanation of problem, and sufficient packing material. Before returning any merchandise please call our service department at (847) 541-3800 to obtain a return authorization number (RMA).

OPERATING INSTRUCTIONS

Connect the power supply as follows:

1. Check the voltage rating of the equipment to be powered. Care must be taken not to exceed this rating.
2. Turn the power supply OFF.
3. Plug the line cord into a 120V, 60Hz AC outlet.
4. With the power supply turned OFF, connect the load to the desired voltage output.
 - A. **0-30VDC Supply** - Connect the positive lead of your equipment to the red terminal on the front panel and the negative lead to the black terminal.
 - B. **0-40VAC Supply** - Connect your equipment leads to the yellow terminals on the front panel.
 - C. **0-110VAC Supply** - Plug your equipment into the three-wire power outlet located on the back panel.

The 110V supply is connected to the AC input and grounded to the chassis. The 0-40VAC and 0-30VDC are isolated from the AC input by the power transformer. Since the 0-30VDC and 0-40VAC supplies use the same power transformer, they must not be connected to each other. **WARNING - ANY SHORT BETWEEN EITHER TERMINAL OF THE 0-30VDC SUPPLY AND EITHER TERMINAL OF THE 0-40VAC SUPPLY MAY RESULT IN DAMAGE TO THE POWER SUPPLY.** If properly isolated, the different outputs may be used at the same time. Maximum power of all power supplies is protected by the 4A fuse.

5. Turn the power switch to the ON position. The power indicator (red LED) on the front panel will automatically light.
6. Turn the voltage adjust knob clockwise to set the desired voltage.
7. For finish work with the power supply, turn the voltage adjust knob to zero (fully counter-clockwise) and turn the power OFF (the power indicator will automatically turn off).
8. If the unit is overloaded and does not operate, turn the power supply off, remove the line cord from the 120VAC, 60Hz outlet and check the 4A fuse located on the back panel. If needed, replace the fuse with another of the same rating (4A fast blow, Buss ACG-4 or equivalent).