

Setting Current Limit

1. Set the ammeter range switch to the HI position (XP-605 only).
2. Adjust the current and voltage control knobs fully counter-clockwise.
3. Short the positive to the negative output terminal.
4. Press the power ON/OFF switch to ON. The CC LED should be lit.
5. Turn the voltage coarse knob clockwise 1/4 turn.
6. Set the maximum output current by turning the current coarse knob clockwise.

Note XP605: If needed, set the amp meter range switch to the Lo position.

This now limits the output current to your setting.

FUSE REPLACEMENT

1. Unplug the power supply line cord from the AC outlet.
2. Unscrew the fuse cap and replace blown fuse with a new 4A, 250V type and screw on fuse cap.

SPECIFICATIONS

| | | |
|-------------------------------------|---|---|
| Input Voltage | 115VAC \pm 10% 60Hz | |
| Source Effect (Line regulation) | CV \leq 0.01% +1mV CC \leq 0.2% +1mA | |
| Loading Effect (Load Regulation) | CV \leq 0.01% +3mV (Iout \leq 3A) CC \leq 0.2% +3mA (Iout \leq 3A) | CV \leq 0.01% +5mV (Iout > 3A) CC \leq 0.2% +5mA (Iout > 3A) |
| Ripple & Noise | CV \leq 0.5mV rms (Iout \leq 3A) CC \leq 3mA rms (Iout \leq 3A) | CV \leq 1.0mV rms (Iout > 3A) CC \leq 6mA rms (Iout > 3A) |
| Protection | Current limit and short circuit protection. | |
| Voltage Display Accuracy | LED \pm 1% +2 digits, Analog \pm 2.5% FSR | |
| Current Display Accuracy | LED \pm 2% +2 digits, Analog \pm 2.5% FSR | |
| Environment | 0 - +40°C, relative humidity <90% | |

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).

Variable Voltage Power Supply

Instruction Manual

Model XP-605 / XP-752

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INTRODUCTION

Congratulations on your selection of a top quality power supply! The XP-605 has an output of 0-30VDC @ 5A; the XP-752 has an output of 0-50VDC @ 3A. Their features include fine and coarse controls for voltage and current, and contains two analog volt/amp meters (XP-605); two digital volt/amp meters (XP-752).

The supply incorporates an externally controlled current cutoff circuit with an LED indicating current overload. Protected against short circuits and overloads.

OPERATING INSTRUCTIONS

1. Check that the voltage rating of the equipment does not exceed the power supply's rating.
2. Plug the line cord into an AC outlet.
3. Set amp meter range switch to Hi position (XP-605 only).

Constant Voltage Mode

1. Turn the current control (coarse and fine) knobs fully clockwise and the voltage control knobs fully counter-clockwise.
2. Press the power ON/OFF switch to ON. The CV LED should be lit.
3. Turn the voltage control knobs clockwise to the desired output voltage.
4. Connect the positive and the negative output terminals to a load or similar component.

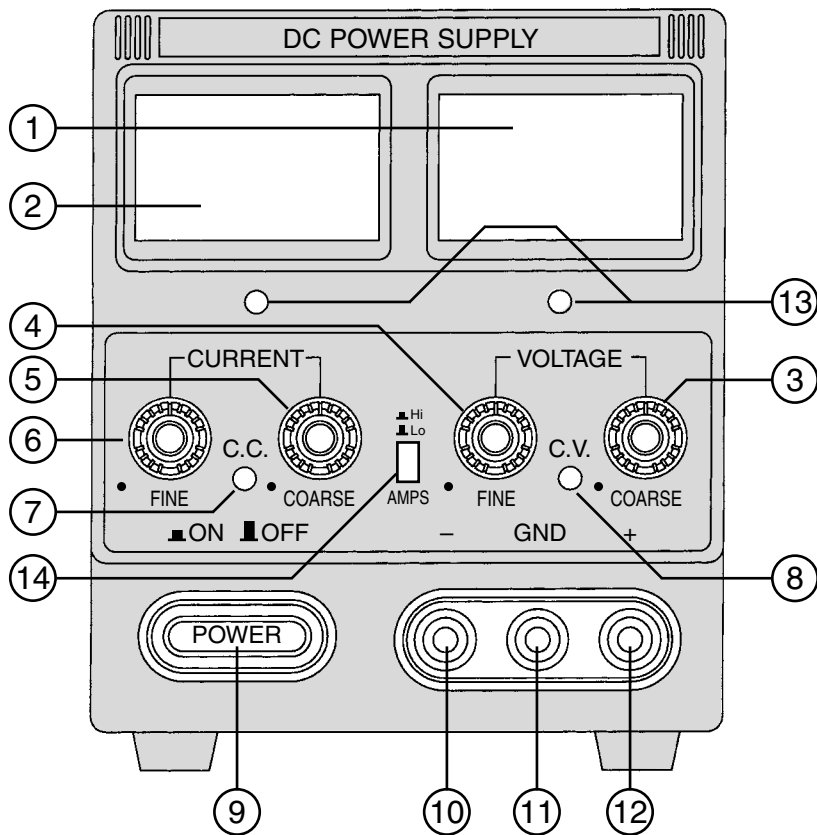
Note XP605: If needed, set the amp meter range switch to the Lo position.

Constant Current Mode

1. Turn the voltage control knobs (coarse and fine) fully clockwise and the current control knobs (coarse and fine) fully counter-clockwise.
2. Set amp meter range switch to Hi position (XP-605 only).
3. Press the power ON/OFF switch to ON. The CC LED should be lit.
4. Connect the positive and the negative output terminals to a load or similar component.
5. Turn the current control knobs clockwise to the desired output current value.

Note XP605: If needed, set the amp meter range switch to the Lo position.

Note XP-752: Current limiting less than 1/2A or a shorted output activates the short circuit protection, turning the unit off. To reset unit, remove the short or load and readjust current limiting control.



1. Voltage Meter
2. Amp Meter
3. Coarse Voltage Adjustment
4. Fine Voltage Adjustment
5. Coarse Current Adjustment
6. Fine Current Adjustment
7. Current Limit Indicator (Lit when overload condition)
8. Voltage Indicator (Lit for normal operation)
9. Power Switch
10. Negative Output Terminal
11. Ground Terminal
12. Positive Output Terminal
13. Zero Adjust (XP-605 only)
14. Amp Meter Range Switch (XP-605 only)