

POWER SUPPLY

SINGLE_OUTPUT

30V/10A

Operation

Manual

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1. INTRODUCTION

This unit is a bench top single output D.C. power supply with output D.C. voltage from 0 - 30VDC continuously variable and current from 0 - 10A continuously variable.

This unit is designed in the following feature

- a) Continuously variable over automotive DC voltage range (0 - 30VDC)
- b) Continuously variable current over the 10A load range
- c) Operates in constant-voltage and constant current modes
- d) Analog meters provided for voltage and current monitoring
- e) 2A AND 10A switch range limits current to either range avoiding meter and circuit damage
- f) Ideal as bench source for servicing high-performance car audio equipment, Land Mobile Radio, CB's, radar detectors, etc.

2. SPECIFICATION

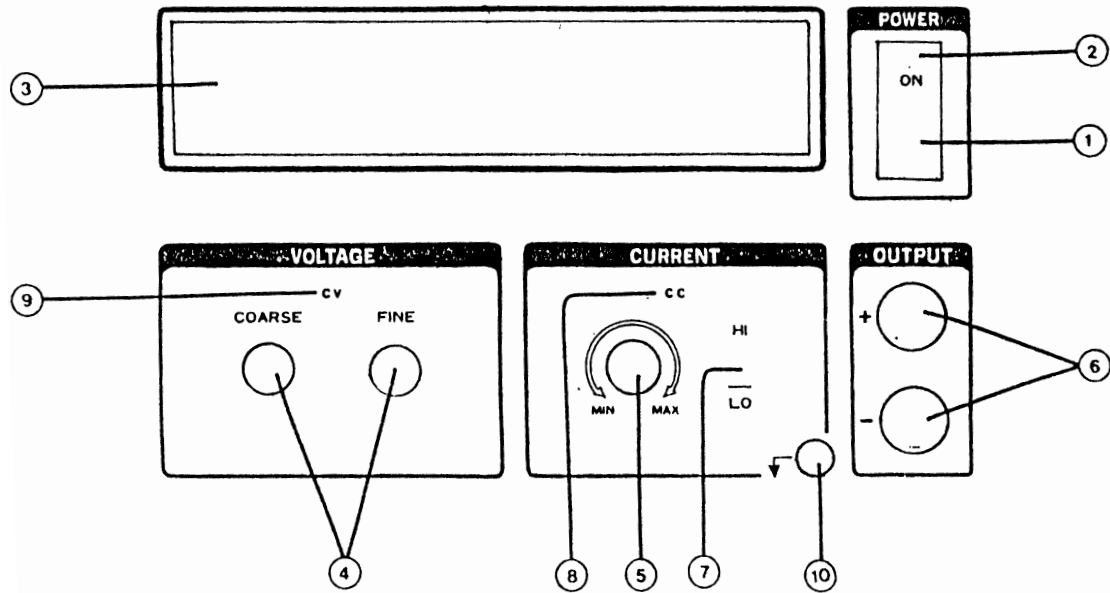
CONSTANT VOLTAGE MODE

Output Voltage: 0V - 30V, continuously variable

Load Regulation: \pm (0.04% + 2mV)

Line Regulation: \pm (0.05% + 2mV), 105 - 126VAC

Noise and Ripple: 1mVrms(8mVp-p)



- 1) POWER ON-This is the main power switch.
- 2) POWER ON LED-This LED indicated that the power is on.
- 3) VOLTAGE/CURRENT METERS-This is one meter indicate the output voltage and current as measured at the output terminals.
- 4) COARSE/FINE VOLTAGE ADJUST-These two controls adjsut the output voltage of the supply.
- 5) CURRENT ADJUST-This control adjsuts the maximum output current that the supply will put out.
- 6) OUTPUT TERMINALS-There are three terminals. They represent positive, negatinve and ground.
- 7) HI/LO SWITCH: Put on "HI" position means that the needle indicates the upside high scale of AMPERES meter and on "LO" position means to indicate the low scale of meter.
- 8) CC LAMP: When the load of this unit is over the current limitting ampere,this lamp will be light on. It means that this unit is overload current limit and the output D.C. voltage will be down until output voltage is cut until to 0VDC. And no output voltage.
- 9) CV LAMP: When the output voltage of this unit is in the normal working, the lamp will be light on. But, when the unit is overload or short circuit, its lamp will be light off.
- 10) GROUND TERMINAL

4. OPERATING INSTRUCTIONS

WARNING—Before applying power supply, make sure that the AC input voltage setting is correctly set for your available power.

- 1) Connect the instrument to an AC power source using the line cord provided and turn the POWER ON switch on. For maximum stability, allow the instrument to warm up for at least 20 minutes.
- 2) Set the voltage and current adjustment knobs as you desire

5. OPERATING CAUTIONS

Please follow the following cautions when using your power supply to prevent damage to the unit.

- 1) Verify that the AC voltage setting is the same as your available power BEFORE you apply power to the instrument.
- 2) Do not connect a voltage that is greater than the current output voltage to the terminals of the instrument.
- 3) Do not parallel the output of two or more.

