1. Introduction

The Power Supply is a bench top double-output power supply. Voltage outputs may be electrically connected for tracking. The two main power supplies in the unit have four meters for monitoring output voltage and current. Each of the power supplies is also equipped with independent controls for use when the unit is not being operated in the tracking mode.

The power supply will find wide application in schools; laboratories, and commercial engineering and testing departments, as well as with the advanced hobbist.

2. Front Panel Description

The following is an explanation of the function of each of the front panel controls and connectors.
(1) POWER ON - This is the main power switch.
(2) POWER ON LED - This LED indicates that the power is on.
(3) VOLTAGE/CURRENT METERS - These four meters indicate the output voltage and current as measured at the output terminals.
(4) COARSE/FINE VOLTAGE ADJUST - These two controls adjust the output voltage of the two supplies.
(5) CURRENT ADJUST - These two controls adjust the maximum output current that the two supplies will put out.
(6) OUTPUT TERMINALS - There are two sets of three terminals (one set for each supply). They represent positive, negative and ground. Note that the two inside connectors (one + the other - ) should be connected together when the supply is
mode.

(12) GROUND TERMINAL

3. 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) SEPARATION MODE - Set the FUNCTION switch to the Separation mode. The two sets of voltage and current adjustment knobs may then be used to set the outputs to the desired level.
(1) Verify that the AC voltage setting is the same as your available power BEFORE you apply power for the instrument.

(2) Do not connect a voltage that is greater than the current output voltage to the terminals of the instrument.

5. Specifications

(1) Output voltage:
   
   SEPARATION MODE : 0 - 30 VDC *2
   SERIAL MODE : 0 - ±30 VDC or 0 - 60 VDC
   PARALLEL MODE : 0 - 30 VDC
   continuously variable with coarse and fine controls.

(2) Output current:
   
   SEPARATION MODE : 0 - 3A (0 - 5A)
   SERIAL MODE : 0 - ±3A (0 - ±5A)
(9) Meter accuracy: 2.5% of full scale.

(10) Protection features: Protected against: Short circuit.

(11) Power Requirements: 120 VAC/240 VAC, ±10%; 50/60 Hz, 180(300) watts at full load.

(12) Dimensions: 360(W) x 155(H) x 260(D)