

## **HY3005F-3 Power Supply Operation – Rev. September 4, 2007**

The Voltage controls allow adjustment of each output from 0 to 30 volts. The Current controls are used to set maximum current of each output from 0 to 5 Amperes. Several operating modes are available:

- INDEPENDENT** – Either output can be adjusted to a separate voltage or maximum current.
- SERIES** – The outputs can be connected in series if voltage greater than 30 Volts is required or if equal positive and negative voltage is required.
- PARALLEL** – Both outputs can be connected in parallel if current greater than 5 Amperes is required.

The 5 volt supply is a fixed output with maximum current output of 3 Amperes.

The Green Terminals are Chassis Ground and are not normally used in the classroom laboratory projects.

### **INDEPENDENT MODE**

1. Move both Indep/Series/Parallel switches to the OUT position.
2. Switch the power to ON.
3. Adjust the Current controls about one-quarter turn from CCW.
4. Adjust the Voltage controls to the required voltage.
5. If more current is required, adjust the Current controls CW.

### **SERIES MODE**

1. Move Indep/Series/Parallel Right switch to OUT and Left switch to IN position.
2. Connect Positive (+) Slave terminal to the Negative (-) Master terminal with AWG #22 or larger wire.
3. Switch the power to ON.
4. Adjust the Current controls about one-quarter turn from CCW.
5. Adjust the Master Voltage control to the required voltage. The Slave output voltage will track the Master output voltage.
6. The Maximum current adjustment is independent for master and slave.

### **PARALLEL MODE**

1. Move Indep/Series/Parallel Right switch to IN and Left to OUT position.
2. Connect both Slave and Master Positive (+) terminals together with AWG #22 or larger wire. Likewise connect both Slave and Master Negative (-) terminals together with AWG #22 or larger wire.
3. Switch the power to ON.
4. Adjust the Current controls about one-quarter turn from CCW.
5. Adjust the Master Voltage control to the required voltage. The Slave output will track the Master output voltage.
6. The Maximum current output is adjusted by the Master Current Control.