



SUPPORT

PARALLEL MASTER/SLAVE OPERATION

Master/slave parallel operation permits equal current sharing under all load conditions and allows complete control of output current from one master power supply.

Figure 1 illustrates the terminal connection for master/slave operation and salient control circuitry. Slave operation requires setting switch positions 3 and 4 of S2 to 0 and connecting a jumper between terminal 2 of JO2 to terminal 19 of JO2. To interface the slave to the master, connect terminal 16 of JO2 slave to terminal 1 of JO2 master and connect terminal 3 of JO2 slave to terminal 14 of JO2 master.

The auxiliary differential amplifier in the slave connects to the current sensing terminals of the master. This amplifier creates a current reference signal equal to that being sensed by the master. In master/slave parallel operation, the slave output voltage should be set slightly higher than that of the master.

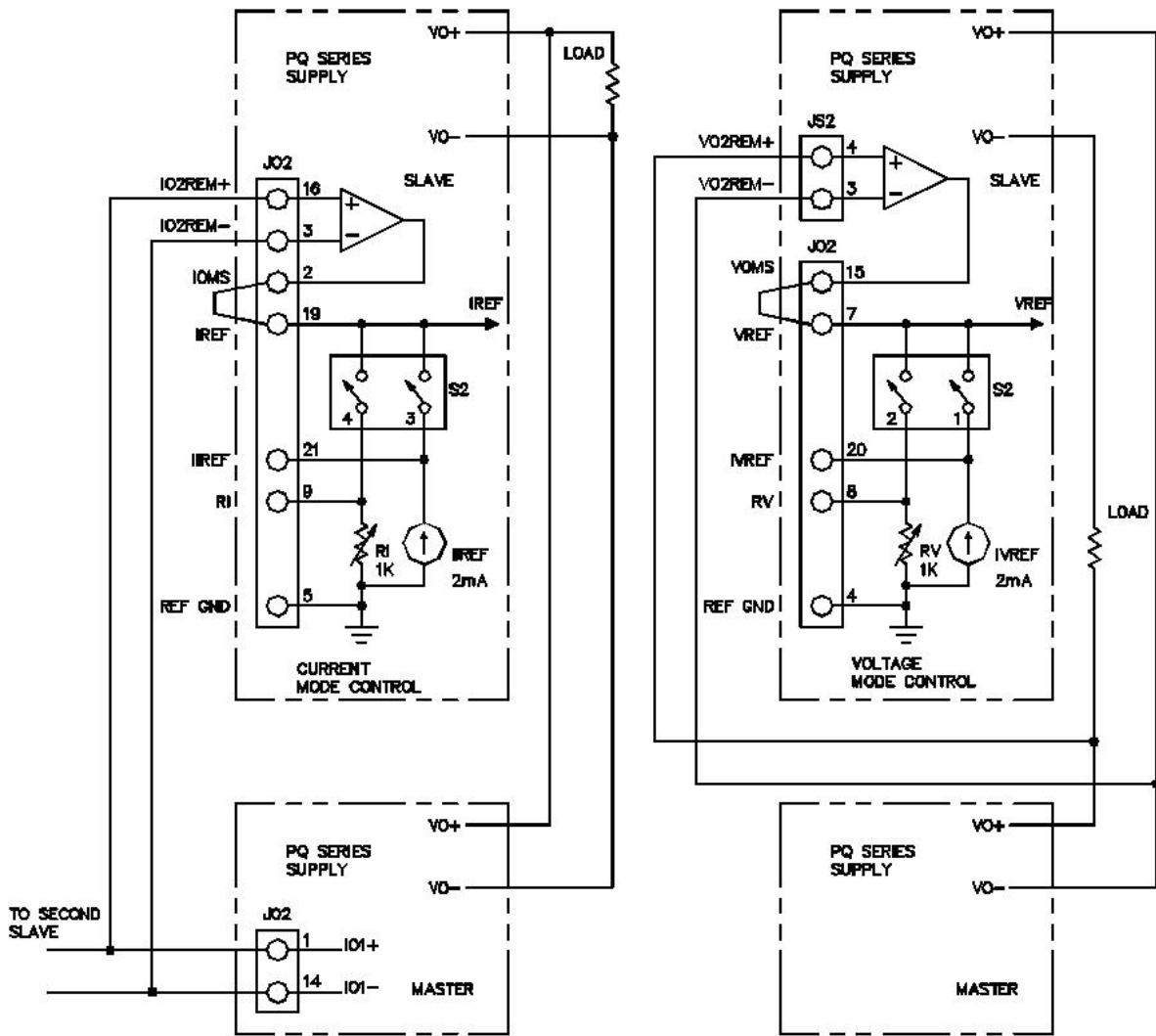
To add a second slave, make the same connections to the current sensing terminals of the master and connect the second slave in parallel with the other two supplies.

SERIES MASTER/SLAVE OPERATION

Master/slave series operation permits equal voltage sharing under all load conditions and allows complete control of output voltage from one master power supply.

Figure 2 illustrates the terminal connection for master/slave operation and salient control circuitry. Slave operation requires setting switch positions 1 and 2 of S2 to 0 and connecting a jumper between terminal 15 of JO2 to terminal 7 of JO2. To interface the slave to the master, connect terminal 4 of JS2 slave to the positive output terminal of the master and connect terminal 3 of JS2 slave to the negative output terminal of the master. To minimize noise, wires between the master and slave should be #20 AWG twisted pair.

The auxiliary differential amplifier in the slave connects to the output of the master. This amplifier creates a voltage reference signal equal to that being sensed by the master. Master/slave series operation is intended only for power supplies with the same output voltage and current ratings.



(click for a larger view)

Figure 1(left). Master/Slave Parallel Connection

Figure 1(right). Master/Slave Parallel Connection