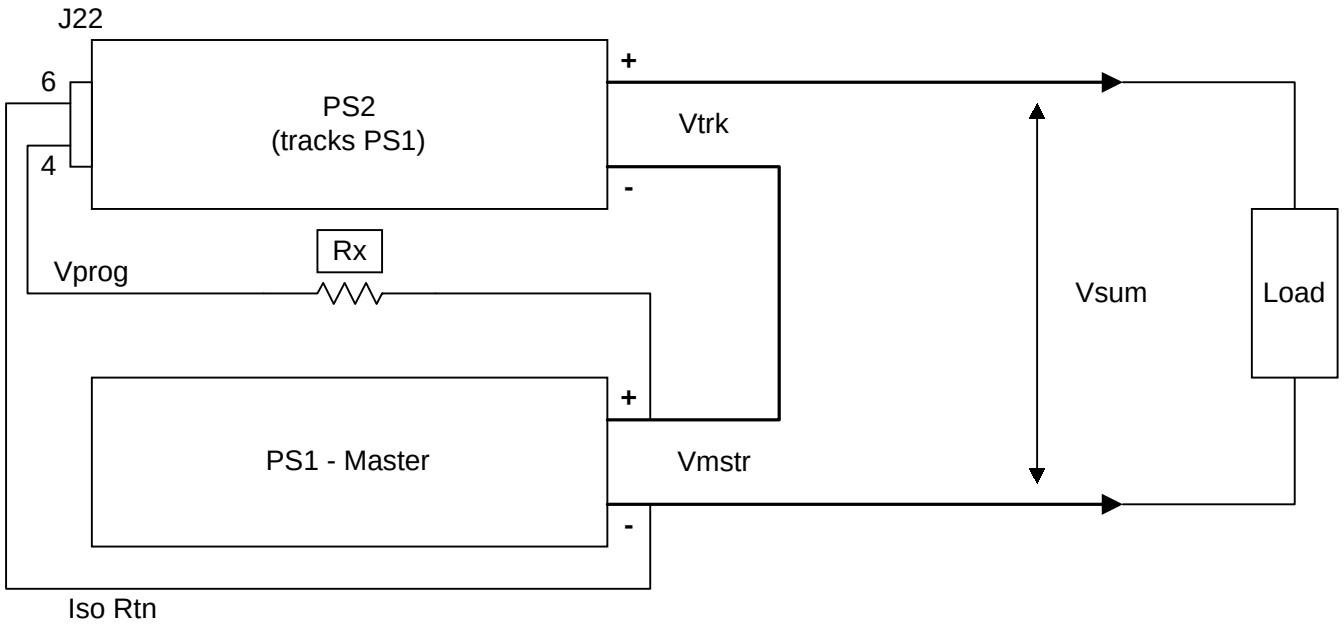
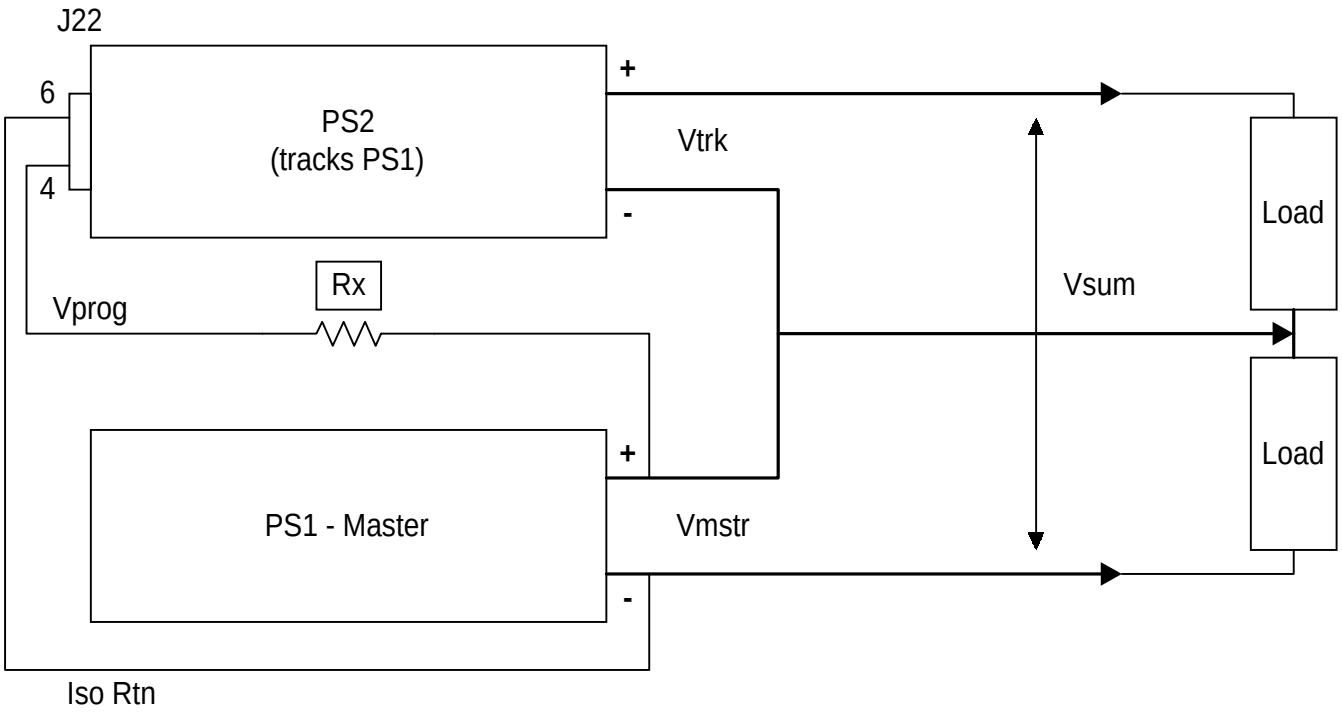
Auto-Series Operation

XDS Series programmable DC power supplies are designed to operate in series or in parallel with other XDS supplies. In the auto series configuration, a master-tracker configuration is established. For auto-series operation, both DC power supply controllers must be configured for stand-alone operation. The auxiliary (AUX) mode is used for auto-parallel operation only. On the DC power supply designated as the tracker, pin 4 of the J22 connector is the remote voltage programming input (RPV), 0 to 10 volt range.

Auto-Series Diagram



Auto-Series Diagram - Bipolar Output



Vsum=Vmstr + Vaux (Note: Maximum Vsum allowed is 600Vdc)

Steps Required for Auto-Series Operation

- Both DC power supply controllers must be configured for stand-alone operation
- Designate one of the DC supplies as a tracking unit.
- Remove the top cover of the tracking unit and move jumper W1 to W2
- *Calculate and select appropriate value for Rx
- Connect interface cable between the master supply and J22 of the tracker unit

*Calculating Resistor Value

Rx = 1.01 (Vmstr Vrange-10)

For units with voltage output range </= 200Vdc, use ¼ watt resistors. For output voltage ranges > 200Vdc, use ½ watt resistors.