

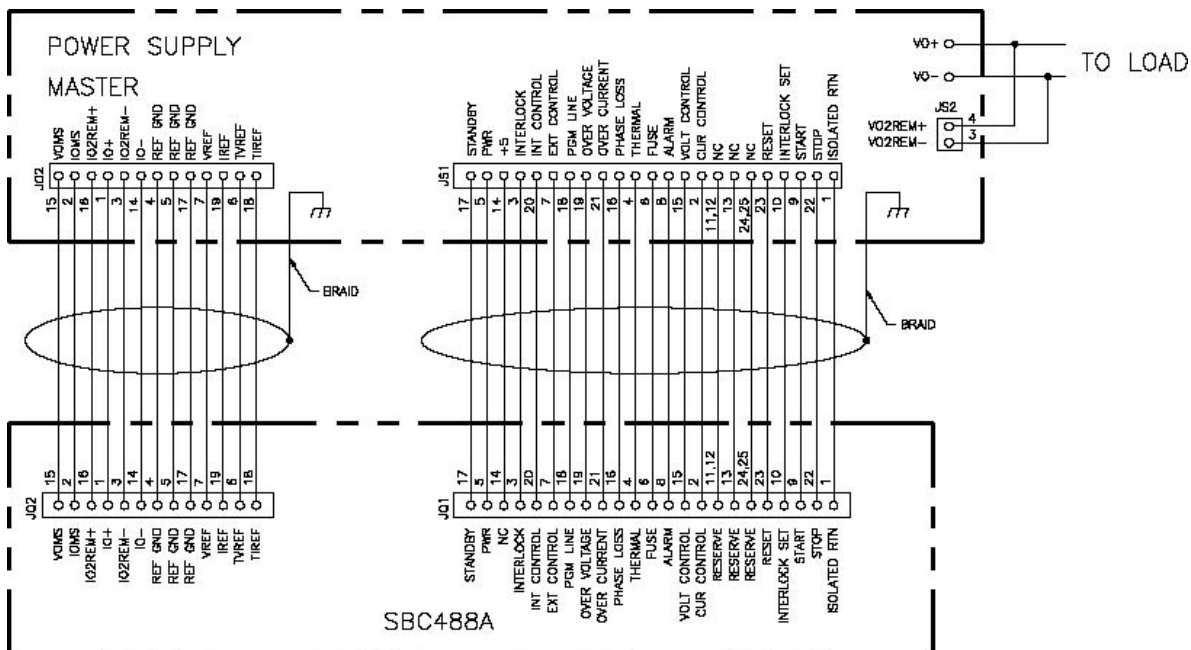
# SUPPORT

## INTERFACING THE SBC488A

The optional SBC488A is a single board computer that incorporates a variety of input and output capabilities including two communication interfaces. The SBC488A provides the interface between the power supply and computer and may be installed above or below the power supply in the equipment rack. Before installing this optional equipment, the manufacturer recommends that you first commission the system using the manual controls on the front panel of the power supply.

To connect the SBC488A to the PQ/SQ/MQ Series power supply, proceed as follows:

1. Set all positions of dip switch S2 on the power supply to 0.
2. Connect a standard, straight-through, 25 conductor, serial extension cable between connector JS1 of the power supply and connector JQ1 of the SBC488A. Connect a second standard, straight-through, 25 conductor, serial extension cable between connector JO2 of the power supply and connector JQ2 of the SBC488A. These cables are supplied with the SBC488A.
3. Connect a #20 wire between terminal 4 of connector JS2 on the rear of the power supply to the positive terminal of the output. Connect a second #20 wire between terminal 3 of connector JS2 to the negative terminal of the output. This configuration, shown in figure 1, allows the SBC488A to read the output voltage.
4. For RS-232 communications, connect the straight-through, 9 conductor, serial extension cable supplied with the SBC488A between connector JP4 of the SPC488A to a serial port on a computer. Set dip switch S1 on the SBC488A to address 31 to enable RS-232 communications.
5. For IEEE488 communications, connect an IEEE488 cable between connector JP1 of the SBC488A and an IEEE488 port on a computer. Set the dip switch S1 on the SBC488A to address 0-30 to enable IEEE488 communications.



(click for a larger view)

Figure 1. Interfacing the SBC488A to a PQ/SQ/MQ power supply