

Dual Rack Operation

A single power supply can provide power for two racks under the following conditions:

- Only 5 volt power is required in the second rack, and the total power required by both racks is within the capability of the supply.
- The current drawn by the second rack is less than 5.2 amperes.
- The two racks must be mounted in close proximity as limited by the available 3-foot connecting cable.

The connecting cable used for dual rack operation is listed in Table 2, Ordering Information. This cable carries the +5 volts power bus as well as the power sequencing signals. It uses a 9-pin D-type connector which connects directly to the backplane through an opening in the rack frame. Note that the cable carries power and power sequencing signals only. Inter-rack communication and bus interface modules must be provided separately. See the applicable *Programmable Controller Installation Manual* for application information.

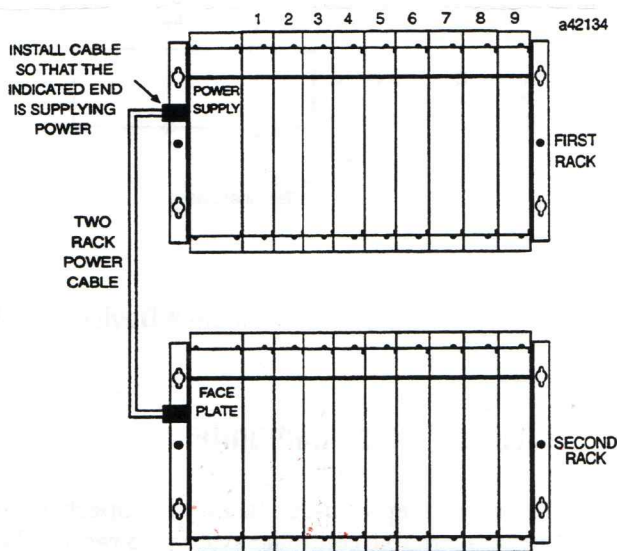


Figure 2. Dual Rack Configuration

Timing Diagram

The timing diagram below shows the relationship of the ac input power to the dc outputs and to the two system signals generated by the power supply: *ACFAIL* and *SYSRESET*.

SET. The 5VSTBY output may be used for user battery backup schemes as shown.

On application of power, the *ACFAIL* signal goes false soon after the 5 volt bus is within specification. The system is held in the Reset state by *SYSRESET* for at least 200 milliseconds after 5 volt power is available (during this time, outputs are forced off).

If AC input power is interrupted, the 5 volt bus will remain within specifications for at least one cycle. The system is then given an additional 5 milliseconds to complete an orderly shutdown before *SYSRESET* stops all processing.

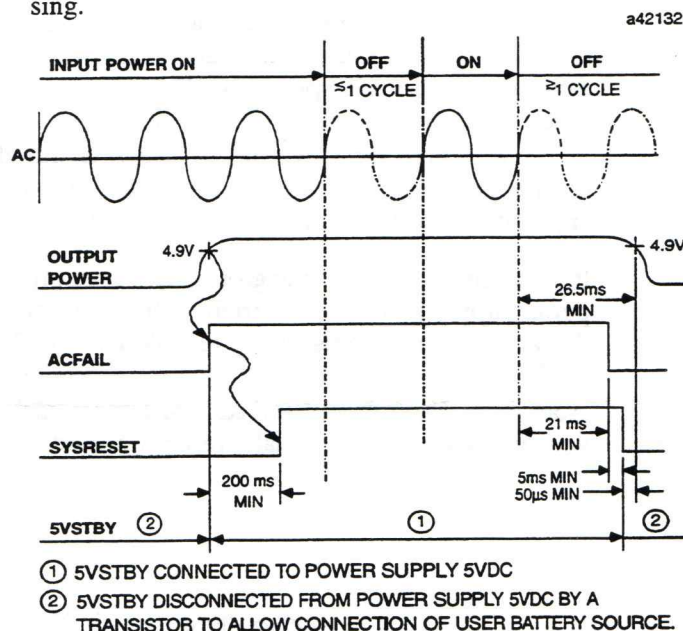


Figure 3. Timing Diagram

Note

Input power interruptions which exceed the power supply holdup time (21 milliseconds minimum) will result in a complete power down/power up cycle of *ACFAIL* and *SYSRESET*.

Mounting

This Power Supply is a plug-in module that is installed in the leftmost slot of any standard IC697 rack or VME Integrator's rack. For additional installation information, refer to GFK-1179, *Installation Guidelines for Conformance to Standards*, shipped with the PLC programming software.