



## GE Fanuc Automation

The Redundant Power Supply System (RPSS) is designed for high-availability applications. In the event that the primary power supply fails the system power is switched over to the backup unit without process interruption.

The RPSS is compatible with all Series 90-30 power supplies, CPU and I/O expansion bases. The flexibility of the RPSS allows power from multiple sources. An example is the primary can be connected to 120VAC source and the backup can be 24VDC.

The RPSS consist of a power supply baseplate that supports two power supplies and a Redundant Power Supply Adapter. The Redundant Power Supply Adapter mounts in the power supply slot on any CPU or I/O expansion base.



**Redundant Power Supply base with two standard Series 90-30 Power Supplies connected to a CPU Base via the Redundant Power Supply Adapter unit.**

### Product Features:

#### Redundant Power Supply Baseplate

- The Redundant Power Supply Baseplate has slots for two standard Series 90-30 power supplies. In addition it has the following features:
  - Adapter connection cable that connects to the Power Supply Adapter and comes in 0.125 meter and 0.6 meter lengths.
  - Status LED lights for Power Supply OK and power supply active on the bus.
  - 24VDC, 0.83 Amp user output for field devices.
  - Status relay outputs. The relay outputs are active when the power supplies are ok and when the power supply is active on the bus.

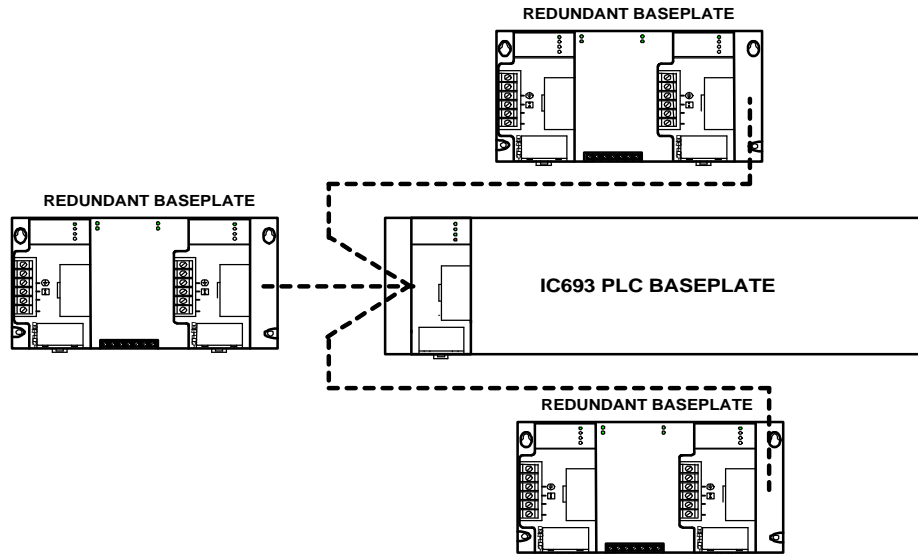
#### Redundant Power Supply Adapter

- The Redundant Power Supply Adapter plugs into a standard Series 90-30 PLC baseplate's power supply slot. The adapter has connectors that mate to the RPS Baseplate's adapter connection cables. The adapter also includes:
  - RS-485 serial communications port (only active on CPU bases).
  - Status LEDs for Power, CPU OK, RUN status, and Battery status.
  - Battery backup for the CPU when connected to a CPU base (backup battery and serial port connector are not functional on the individual power supplies).

### Application Benefits:

- **High availability.** Applications such as pumping stations, process lines, emergency generating, batching, and other applications where uptime is critical are ideal for the RPSS. In the event that the power supply or the source voltage should fail, backup power on the standby RPSS power supply unit will ensure that the process doesn't go down.
- **Extensive diagnostics for easy troubleshooting.** The Redundant Supply Baseplate's built-in user diagnostics can be incorporated into the controller or an external alarm. Each power supply has Power Supply OK and Power Supply Active relays.
- **Reduced down time with Hot Swapping Power Supplies.** In the event that a power supply fails, the user can easily replace the failed unit by simply removing power from the defective unit and swapping while the backup unit is powered and controlling the process.
- **Economical benefits.** The Redundant Power Supply System uses standard power supplies and standard CPU and I/O bases. The RPSS minimizes lost production and scrapped product due to power supply failure.
- **Compatible with existing product line.** The RPSS is compatible with all Series 90-30 CPUs, I/O expansion bases and power supplies. Any Series 90-30 system can easily be adapted to the RPSS.

# Specifications & Ordering Information



The Redundant Baseplate can be mounted in any of the three positions shown above.

Specifications	
<b>Redundant Power Supply Baseplate</b>	
Number of Power Supply Slots	Two, one primary and one secondary slot.
Dimensions	8.46 inches (215.0 mm wide), 5.12 inches (130.0 mm) high, 5.59 inches (142 mm) deep when power supply is mounted on base.
Diagnostic LED's	PS1 OK, PS1 Active, PS2 OK and PS2 Active
User Relay Outputs	PS1 OK, PS1 Active, PS2 OK and PS2 Active
Relay Specifications	Normally Open - 12/24VDC, 120/240VAC at 0.5 Amps
Mounting	Panel Mounted
Redundant 24VDC User Supply	24VDC at 0.83 Amps
Power Supply Compatibility	Compatible with any Series 90-30 power supply
Power Supply Communication Port	Not functional. The serial port on the Redundant Power Supply Adapter is active when mounted on CPU baseplate.
Battery Back-up on Power Supply	Not functional. The battery option on the Redundant Power Supply Adapter is active when mounted on CPU baseplate.
<b>Redundant Power Supply Adapter</b>	
Dimensions	Same as Series 90-30 Power Supplies
LED's	Power OK, CPU OK, CPU RUN, Battery OK
Serial Port	(1) RS-485 port for Programming and Serial communications when mounted on CPU baseplate.
Battery Connection	Battery back up for CPU when mounted on CPU baseplate,
Mounting	Installed in any Series 90-30 CPU or I/O expansion base power supply slot
CPU and I/O Baseplate Compatibility	Compatible with all Series 90-30 CPU and I/O Expansions bases.
<b>Agency Approvals</b>	CE Mark, UL and CUL (Class 1, Div II, A, B, C D)
<b>Operating/Storage Temperature</b>	Operating 0C to 60C / Storage -40C to +85C

Ordering Information	
Part Number	Description
IC693ACC350	Redundant Power Supply Adapter Module.
IC693ACC340	Redundant Power Supply Baseplate with 0.125 meter cable
IC693ACC341	Redundant Power Supply Baseplate with 0.6 meter cable



Series 90 is a trademark of GE Fanuc Automation North America, Inc.

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