

# AC/DC Input Power Supplies

## IC693PWR321 Standard Power Supply, 120/240 VAC or 125 VDC Input

The IC693PWR321 is a 30 watt supply that can operate from an input voltage source in the range of 85 to 264 VAC or 100 to 300 VDC. This power supply provides three outputs:

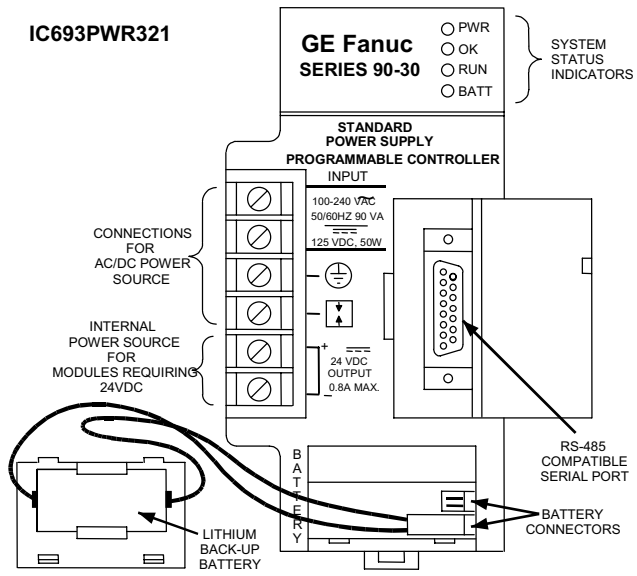
- +5 VDC output,
- +24 VDC Relay power output which provides power to circuits on Series 90-30 Output Relay modules.
- Isolated +24 VDC, which is used internally by some modules, can also be used to provide external power for 24 VDC Input modules.

The load capacity for each output of this power supply is shown in the following table.

**Table 4-2. IC693PWR321 Power Supply Capacities**

| Catalog Number | Load Capacity | Nominal Input             | Output Capacities (Voltage/Power *) |                              |                           |
|----------------|---------------|---------------------------|-------------------------------------|------------------------------|---------------------------|
| IC693PWR321    | 30 Watts      | 100 to 240 VAC or 125 VDC | +5 VDC<br>15 watts                  | +24 VDC Isolated<br>20 watts | +24 VDC Relay<br>15 watts |

\*Total of all outputs combined cannot exceed 30 watts.



**Figure 4-1. Standard AC/DC Input Power Supply - IC693PWR321**

Power supplies must be installed in the leftmost slot in all baseplates.

**Table 4-3. Specifications for IC693PWR321 Standard AC/DC Input Power Supply**

|   |  |
|---|--|
| <b>Nominal Rated Voltage</b>                    | 120/240 VAC or 125 VDC   |
| <b>Input Voltage Range</b>                      |  |
| AC  | 85 to 264 VAC  |
| DC  | 100 to 300 VDC   |
| <b>Input Power<br/>(Maximum with Full Load)</b> | 90 VA with VAC Input<br>50 W with VDC Input  |
| <b>Inrush Current</b>                           | 4A peak, 250 milliseconds maximum  |
| <b>Output Power</b>                             | 5 VDC and 24 VDC Relay: 15 watts maximum<br>24 VDC Relay: 15 watts maximum<br>24 VDC Isolated: 20 watts maximum<br><i>NOTE: 30 watts maximum total (all three outputs)</i> |
| <b>Output Voltage</b>                           | 5 VDC: 5.0 VDC to 5.2 VDC (5.1 VDC nominal)<br>Relay 24 VDC: 24 to 28 VDC<br>Isolated 24 VDC: 21.5 VDC to 28 VDC   |
| <b>Protective Limits</b>                        |  |
| <b>Overvoltage:</b>                             | 5 VDC output: 6.4 to 7 V   |
| <b>Overcurrent:</b>                             | 5 VDC output: 4 A maximum  |
| <b>Holdup Time:</b>                             | 20 milliseconds minimum  |