

IC693PWR322

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In Stock! DC Powered Supply, 24/48 Vdc IC693P IC693PW
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DC Input Only Power Supplies

IC693PWR322 Standard Power Supply, 24/48 VDC Input

The IC693PWR322 is a 30 watt output power supply designed for 24 VDC or 48 VDC nominal inputs. It will accept an input voltage range from 18 VDC to 56 VDC. Although it is capable of maintaining all outputs within specifications with input voltages as low as 18 VDC, it will not start with initial input voltages of less than 21 VDC. This power supply provides the following 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 4-6. IC693PWR322 Power Supply Capacities.

Catalog Number	Load Capacity	Input	Output Capacities (Voltage/Power †)		
IC693PWR322	30 Watts	24 or 48 VDC	+5 VDC 15 watts	+24 VDC Isolated 20 watts	+24 VDC Relay 15 watts

† Total of all outputs combined cannot exceed 30 watts.

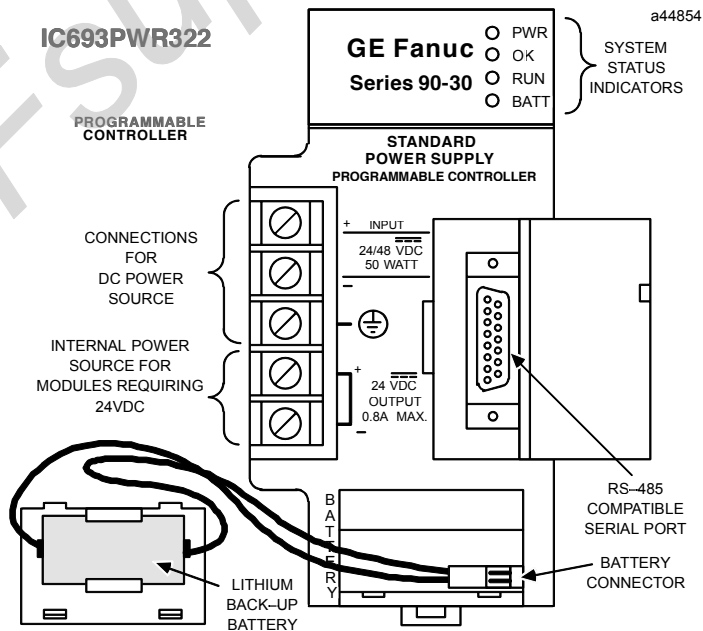


Figure 4-4. Series 90-30 24/48 VDC Input Power Supply - IC693PWR322

Table 4-7. Specifications for IC693PWR322 Power Supply

Nominal Rated Voltage	24 or 48 VDC
Input Voltage Range	
Start	21 to 56 VDC
Run	18 to 56 VDC
Input Power	50 watts maximum at full load
Inrush Current	4A peak, 100 ms maximum
Output Power	5 VDC: 15 watts maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum <i>NOTE: 30 watts maximum total (all three outputs)</i>
Output Voltage	5 VDC: 5.0 VDC to 5.2 VDC (5.1 VDC nominal) 24 VDC Relay: 24 to 28 VDC 24 VDC Isolated: 21.5 VDC to 28 VDC
Protective Limits	
Overvoltage;	5 VDC output: 6.4 to 7 V
Overcurrent;	5 VDC output: 4 A maximum
Holdup Time:	14 ms minimum
Standards	Refer to data sheet, GFK-0867B, or later version for product standards, and general specifications.

Calculating Input Power Requirements for IC693PWR322

The following graph is a typical 24/48 VDC power supply efficiency curve. A basic procedure for determining efficiency of the 24/48 VDC power supply follows the figure.

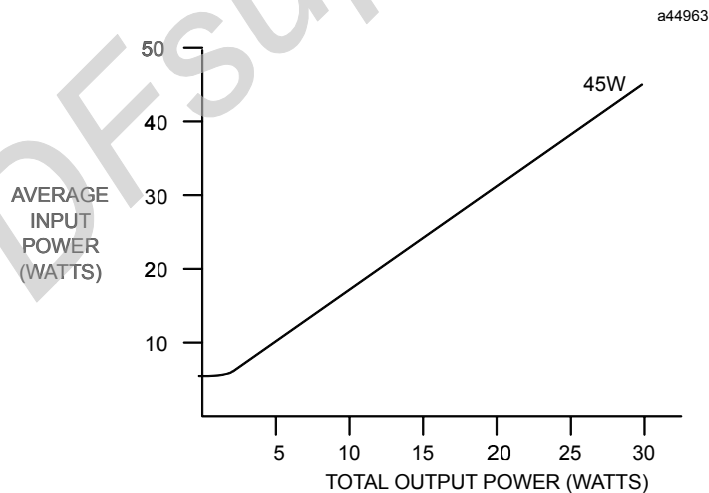


Figure 4-5. Typical Efficiency Curve for 24/48 VDC Power Supply

Note

Start-up surge at full load is 4 amps for 250 milliseconds (maximum).

Input Power/Current Calculation

- Determine total output load from typical specifications listed for individual modules in Chapters 2 and 3.
- Use the graph to determine average input power.
- Divide the input power by the operating source voltage to determine the input current requirements.
- Use the lowest input voltage to determine the maximum input current.
- Allow for start-up surge current requirements.
- Allow margins (10% to 20%) for variations.

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