

**IC693PWR328**

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**Series 90-30**

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In Stock! Power Supply, 48 Vdc IC693P IC693PW IC693PWR

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Table 4-9. Specifications for IC693PWR328 Power Supply

<b>Nominal Rated Voltage</b>	48 VDC
<b>Input Voltage Range</b>	38 to 56 VDC
<b>Input Power</b>	50 watts maximum at full load
<b>Inrush Current</b>	4A peak, 100 ms maximum
<b>Output Power</b>	<b>5 VDC:</b> 15 watts maximum <b>24 VDC Relay:</b> 15 watts maximum <b>24 VDC Isolated:</b> 20 watts maximum <i>NOTE: 30 watts maximum total (all three outputs)</i>
<b>Output Voltage</b>	<b>5 VDC:</b> 5.0 VDC to 5.2 VDC (5.1 VDC nominal) <b>24 VDC Relay:</b> 24 to 28 VDC <b>24 VDC Isolated:</b> 21.5 VDC to 28 VDC
<b>Protective Limits</b> <b>Overvoltage:</b> <b>Overcurrent;</b>	<b>5 VDC output:</b> 6.4 to 7 V <b>5 VDC output:</b> 4 A maximum
<b>Ride-Through Time:</b>	14 ms minimum
<b>Standards</b>	Refer to data sheet, GFK-0867B, or later version for product standards, and general specifications.

### Calculating Input Power Requirements for IC693PWR328

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

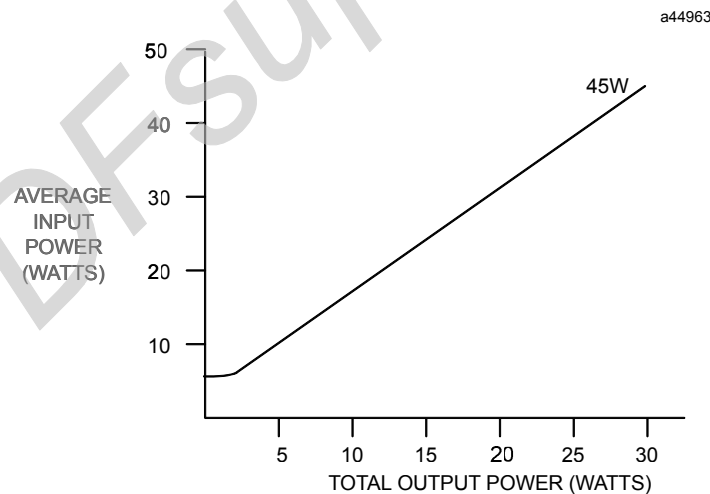


Figure 4-7. Typical Efficiency Curve for IC693PWR328 Power Supply

### Note

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

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### **Input Power/Current Calculation for IC693PWR328 Power Supply**

- Determine total output load from typical specifications listed for individual modules in Chapter 12.
- 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.