

GE Fanuc IC697PWR748

IC697PWR748 48 VDC 90W Power Supply Module

Features

- Operation from 48 VDC
- Three output voltages, 90 watts total
- +5 VDC output up to 18 amps
- +12 VDC output up to 1.5 amps
- 12 VDC output up to 1 amp
- Slide-in rack mount construction
- Electronic short circuit overcurrent protection provided on 5 volt bus
- Two rack operation from a single power supply

Functions

This 90 Watt Power Supply Module is a rack-mounted unit that plugs directly into a 48-pin backplanemounted connector in the leftmost slot in the rack. It

provides +5 volt, +12 volt and - 12 volt power, and logic level sequencing signals to the backplane.

This power supply can be used either in a single rack application, or can also be used to provide power to a second rack if the total load is within the supply rating.

Interconnection to the second rack is through a prewired cable (IC697CBL700).

The power supply output will ride through a 10 msec total loss of input power at full load. Protection is provided for overcurrent and overvoltage fault conditions.

Operation of the Power Supply

This Power Supply Module operates from a 48 VDC nominal line. The power supply can accept an input voltage range of from 35 to 60 VDC.

Overvoltage Protection

The power supply includes an electronic overvoltage protection circuit. This circuit will clamp the output if the 5 V bus exceeds 6.7 volts. External overvoltage on the output will not cause the power supply fuse to open. However, if an internal fault in the power supply caused the overvoltage condition, the fuse may open.

Replace this fuse with a 5 amp, 250 volt 5x20 mm fuse.

Overcurrent Protection

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The power supply provides an electronic overcurrent limit for each of the three outputs (26 amps for +5V, 4 amps for +12 V, and 2 amps for - 12 V (all maximum)). If the maximum current rating is exceeded,

the output voltage will drop.

It will remain in that state until the load is either removed or reduced. A current overload (including a short circuit condition) will not cause the fuse to open.

Temperature Derating

For operation at ambient temperatures that exceed 50C (122F), maximum output power must be derated as shown in the derating curve.

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 volt 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.

Nominal Rated Voltage: 48 VDC

Input Voltage Range: 35 to 60 VDC

Input Power: 160 watts maximum @ full load

Input Inrush Energy: 28 joules maximum at 60 VDC Input

Output Power: 90 watts maximum (total for all 3 outputs)

Output Voltage: +5 VDC: 4.90 to 5.25 volts (5.07 volts nominal)

+12 VDC: 11.75 to 12.6 volts

- 12 VDC: -12.6 to -11.75 volts

Minimum Load: 1.0 A on +5 VDC

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Protective Limits -

Overvoltage Limit: +5 VDC Output: 5.7 to 6.7 volts

Overcurrent Limit: +5 VDC output: 26 amps, maximum

+12 VDC output: 4 amps, maximum

– 12 VDC output: 2 amps, maximum

Ride Through Time: 10 milliseconds minimum

VME System designed to support the VME standard C.1



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