GE Rx7i PACsystem Series Service Manual

IC698PSA350

1. Description

The IC698PSA350 is a power supply module that is part of the PACSystem RX7i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX7i universal backplane. It has an input voltage range of 85 to 264 VAC 47 to 63 Hz and 100-150VDC and maximum input Power of 440 Watts, typical and 500 Watts,

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX7i**
Manufacturer	**GE Fanuc**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC698PSA350**
Product	**Description Power Supply module**
Series	**PACSystem RX7i**
Description	**Power Supply module**
Nominal	**Rated Voltage 120/240 VAC, 125 VDC**
Part	**Number IC698PSA350**
Power	**100 watts**
Input	**Voltage Range 85 to 264 VAC; 100-150VDC**
Nominal	**Input frequency 120/240 VAC, 125VDC**
Frequency	**47-63 Hertz**
Input	**Power 437 watts (typical); 500 watts (maximum)**
AC	**Input Frequency 47-63 Hz**
Temperature	**0-60 degrees celsius**
Output	**Power 350 Watts on total Three (3) outputs**
Input	**Power 125 Watts, typical; 150 Watts, maximum**
GND	**Wire 12 AWG**
DC	**Output +5 VDC: 4.875 to 5.25 volts, 0 to 60 amps; +12 VDC: 11.64 to 12.6 volts, 0 to 12 amps; -12 VDC: -12.6 to -11.64 volts, 0 to 4 amps**
Output	**Voltage 5.1 VDC; +12 VDC; - 12VDC**
Isolation	**1500 Volts DC**
Overvoltage	**Limit +5 VDC Output: 5.7 to 6.7 volts**
Output	**Current 5.1 VDC: 0-60 Amperes +12 VDC: 0-12 Amperes - 12V**

3. Product Information

The IC698PSA350 is a power supply module that is part of the PACSystem RX7i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX7i universal backplane. It has an input voltage range of 85 to 264 VAC 47 to 63 Hz and 100-150VDC and maximum input Power of 440 Watts, typical and 500 Watts,

Technical specifications for IC698PSA350

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Power 100 watts

Input Voltage Range 85 to 264 VAC; 100-150VDC

Nominal Input frequency 120/240 VAC, 125VDC

Frequency 47-63 Hertz

Input Power 437 watts (typical); 500 watts (maximum)

AC Input Frequency 47-63 Hz

Temperature 0-60 degrees celsius

Output Power 350 Watts on total Three (3) outputs

Input Power 125 Watts, typical; 150 Watts, maximum

GND Wire 12 AWG

DC Output +5 VDC: 4.875 to 5.25 volts, 0 to 60 amps; +12 VDC: 11.64 to 12.6 volts, 0 to 12 amps; –12 VDC: –12.6 to –11.64 volts, 0 to 4 amps

Output Voltage 5.1 VDC; +12 VDC; - 12VDC

Isolation 1500 Volts DC

Overvoltage Limit +5 VDC Output: 5.7 to 6.7 volts

Output Current 5.1 VDC: 0-60 Amperes +12 VDC: 0-12 Amperes - 12VDC: 0-4 Ampere

Ride-Through 15 milliseconds

Overcurrent Limit +5 VDC output: 66A (typical); +12 VDC output: 15A (typical); –12 VDC output: 4.6A (typical)

Output Protection Overvoltage; Overcurrent

Hold-Up Time 5 milliseconds

Ride Through Time 15 milliseconds minimum (from loss of AC input)

Ride through time 15 ms

Holdup time 5 ms

Slot Assignment Slot 0

Isolation, input to all outputs 250 VAC continuous; 1500 VAC for 1 minute

Wiring Terminals Input Terminals: AWG #16 (1.3 mm2) GND Terminals: #12 AWG (3.3 mm2)

Product lifecycle Active

The IC698PSA350 is a high capacity Power supply module from the PACSystem RX7i controller series. This module is used to deliver backplane power which is used by the modules to activate internal circuitry and become operable. This power supply module occupies a single slot of the chassis and designed to be installed only in the slot 0 of the RX7i rack. The IC698PSA350 operates at an input supply voltage of 85 to 264 VAC, 100-150VDC at an AC input frequency of 47-63 Hz. The nominal voltage rating of this module is 120 / 240 VAC and 125 VDC with input power requirement of 440 watts, typical and 500 watts, maximum. This power supply module has a power factor of 0.99 when used for AC input supply. The IC698PSA350 is a single slot power supply module that is installed to the leftmost slot of the RX7i rack or slot 0. It is provided with a variety of LED status indicators that helps identify the operational state of the module. These indicators include Field OK, OUTPUT OK and OVER TEMP LEDs. Built-in protection circuits such as Overtemperature and Overvoltage protection is provided to this power supply module as well as an Air flow Protection. A 70 CFM forced air cooling fan is available below the system chassis which supplies cooling air to the power supply module. If cessation of air flow is detected, the OVER TEM LED indicator actuates. The IC698PSA350 power supply is available in series A and Series B version. Series A power supply is internally installed with 0.25” x 1.25” fuses while series B power supply has 5 x 20 m fuse. Installed fuse is 8A/250V fuses.

The IC698PSA350 power supply module is part of the RX7i series and it is manufactured by GE Fanuc. This module is able to send logic level signals to the module through the backplane. It has an output power rating of 350 Watts. The nominal rated voltage for operation is 120/240 Volts AC and 125 Volts DC. The power supply module runs with a frequency between 47 and 63 Hertz. The module has an operating temperature range between 0 and 60 degrees Celsius. The power supply module is provided with an airflow sensor that can easily detect fan failure or the stoppage of airflow around the drive. If either situation happens, the LED for excessive temperatures illuminates. The sensor can be enabled or disabled by using a jumper on the outer part of the module. During installation, the GE Fanuc IC698PSA350 power supply module should not have any power connections that are live and it should be properly grounded. For field wiring, the input terminal is located on the front side of the module that can connect with 120/240 Volts AC and 125 Volts DC input voltage sources. The terminal can connect with solid or stranded wire. The ground terminal or GND should be connected to the GND terminal of the rack with a 12 AWG wire. The ambient temperature of the installation area should not exceed 60 degrees Celsius for regular operation. The isolation rating for all the outputs is 1500 Volts DC. The IC698PSA350 module offers a ride-through of 15 milliseconds and it has a hold up time of 5 milliseconds.