IC698PSA350

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In Stock! RX7i Power Supply 350Watt 85-264VAC IC698P IC698PS IC698PSA

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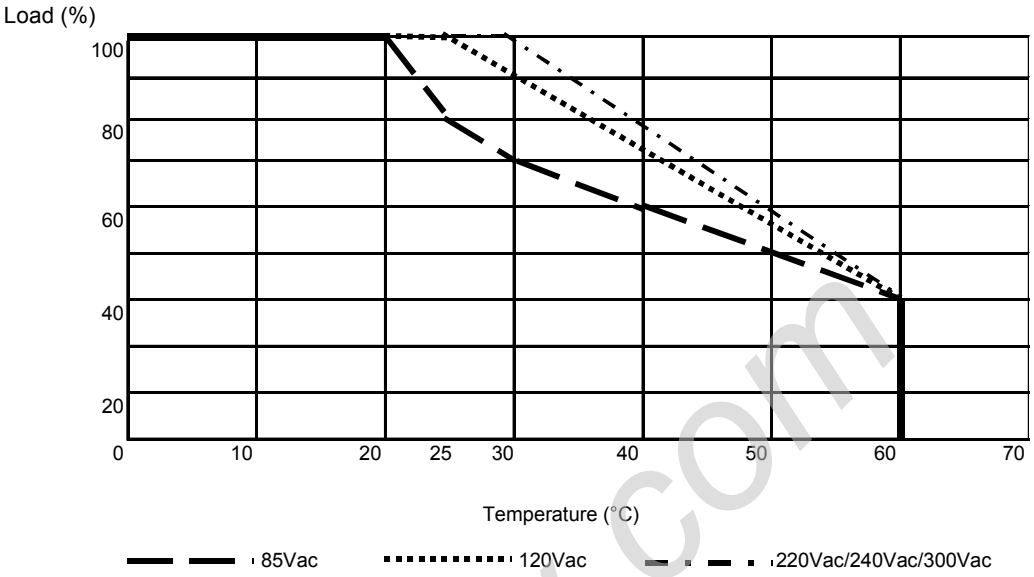
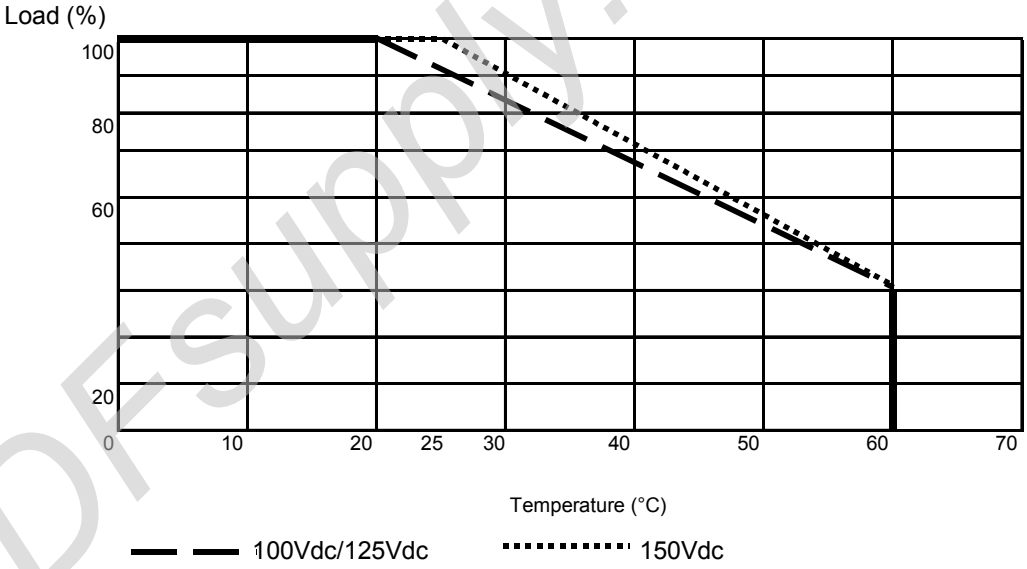
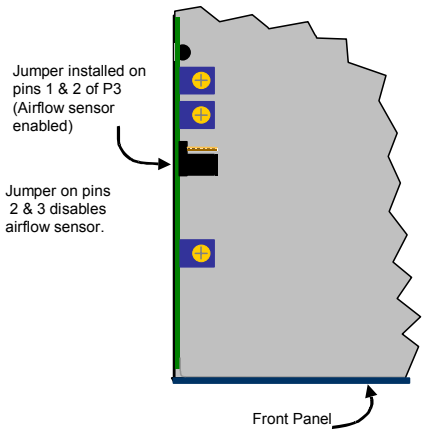
Temperature Derating Curves





An airflow sensor is provided in the 120/240VAC/125VDC and 350W power supplies to detect a fan failure or air blockage. If the power supply senses a cessation of air flow, it responds by latching off all outputs and turning on the overtemperature LED indicator. A power cycle is required to recover from this latched condition.

You can enable or disable the airflow sensor via a jumper located on the outside of the Power Supply. The airflow sensor option is enabled (jumper on pins 1 and 2) as the default for each power supply. To disable the airflow sensor, place the jumper on pins 2 and 3.



Location of Airflow Sensor Jumper – Top View

Installation

Warning

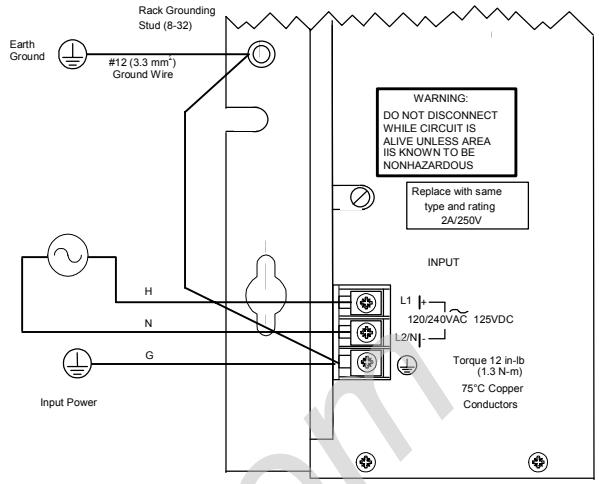
Do not remove (or insert) modules when the power supply or any externally-connected power sources are on. Hazardous voltages may exist. Personal injury, damage to the module, or unpredictable operation of the device or process being controlled may result.

This Power Supply is a plug-in module that is installed in the leftmost slot of any standard RX7i rack. For additional installation information, refer to *PACSystems RX7i Installation Manual,* GFK-2223.

Field Wiring Connections

The input terminals are located on the front faceplate of the power supply. The top two terminals (L1|+ and L2/N|-) are for 120/240 VAC and 125 VDC inputs. Power input connections should be made with copper AWG #16 (1.3 mm2) wire rated for 75°C (167°F). Each terminal can accept two solid or stranded wires, but the wires into any given terminal should be the same type and size. The terminal can accept a single wire connection up to AWG #12. All wire lengths should be stripped to 0.25" (7mm). **Longer stripping lengths will result in exposed power wires, which is a potential shock hazard.**

It is recommended that the **GND** (ground) terminal on the power supply be connected to the GND terminal on the rack and to earth using copper AWG #12 (3.3 mm^2) wire rated for 75°C (167°F) to ensure adequate grounding. Use of a nut and star washer for each wire on the ground terminal is recommended.



Terminal Board Connections for IC698PSA100/350

System Noise Immunity

The following steps must be taken to properly ground the PLC system to reduce the possibility of errors due to electrical noise.

1. Make sure that the power supply mounting screws are properly secured.
2. The GND terminal on the power supply must be connected to the GND terminal on either side of the rack using AWG #12 (3.33 mm^2) wire. Use of a ring terminal and star washer is recommended.
3. The GND terminal on the rack must be connected to a good earth ground.

Note: Each RX7i module has a noise reduction gasket on the right side of the faceplate that maintains contact with the adjacent module or the rack. (RX7i power supplies have the noise strip on both sides.) Installing modules that do not have this strip makes the rack system more susceptible to electrical noise.

Specifications

Nominal Rated Voltage:	120/240 VAC, 125VDC
Input Voltage Range:	85 to 264 VAC 47 to 63 Hz, 100-150VDC
Input Power 100W Supply:	125 watts (typical), 150 watts (maximum)
Input Power 350W Supply:	440 watts (typical), 500 watts (maximum)
Input Requirements 100W Supply	
Inrush current (cold start – 115VAC)	15 amps maximum
Inrush current (cold start – 230VAC)	30 amps maximum
Input Requirements 350W Supply	
Inrush current (cold start – 115VAC)	30 amps maximum
Inrush current (cold start – 230VAC)	60 amps maximum
Power Factor	0.99 min (only valid between 90VAC and 260VAC)
Output Requirements (100 W Supply)	
Output Power:	100 watts maximum (total for all 3 outputs)
Output Voltage:	+5 VDC: 4.875 to 5.25 volts, 0—20 amps
	+12 VDC: 11.64 to 12.6 volts, 0—2 amps
	–12 VDC: –12.60 to –11.64 volts, 0—1 amps
Output Requirements (350 W Supply)	
Output Power:	350 watts maximum (total for all 3 outputs)
Output Voltage:	+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
Isolation, input to all outputs	1500 VDC
Protective Limits:	
Overvoltage Limit:	+5 VDC Output: 5.7 to 6.7 volts
Overcurrent Limit:	+5 VDC output: 21A (typical 100W; 66A (typical 350W)
	+12 VDC output: 2.5A (typical 100W); 15A (typical 350W)
	–12 VDC output: 3.5A (typical 100W); 4.6A (typical 350W)
Ride-through (time allowed for loss of AC input without affecting DC outputs)	15 milliseconds min
Holdup Time (time from ACFAIL# system failure signal activated to when any DC output drops out of specification)	5 milliseconds min
Operating Temperature:	
100W Supply	0°C to 60°C (32° to 140°F)
350W Supply	0°C to 60°C (32°F to 140°F) Fan tray attachment required for full capacity. See "Ordering Information."

* For environmental specifications and compliance to standards (for example, FCC or European Union Directives), refer to Appendix A of the *PACSystems RX7I Installation Manual,* GFK-2223.

Ordering Information

Description	*Catalog Number*
RX7i Power Supply: 85 to 264 VAC at 47 to 63 Hz, 125VDC Input, 100 watt output	IC698PSA100B and later
RX7i Power Supply: 85 to 264 VAC at 47 to 63 Hz, 125VDC Input, 350 watt output	IC698PSA350B and later
120VAC Input Rack/Fan Assembly	IC697ACC721
240VAC Input Rack/Fan Assembly	IC697ACC724

The following statements are required to appear for Class I Div 2 Hazardous Locations.

1. EQUIPMENT LABELED WITH REFERENCE TO CLASS I, GROUPS A, B, C, and D, DIV. 2 HAZARDOUS LOCATIONS IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, D OR NON–HAZARDOUS LOCATIONS ONLY.
2. WARNING – EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.
3. WARNING – EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON–HAZARDOUS.