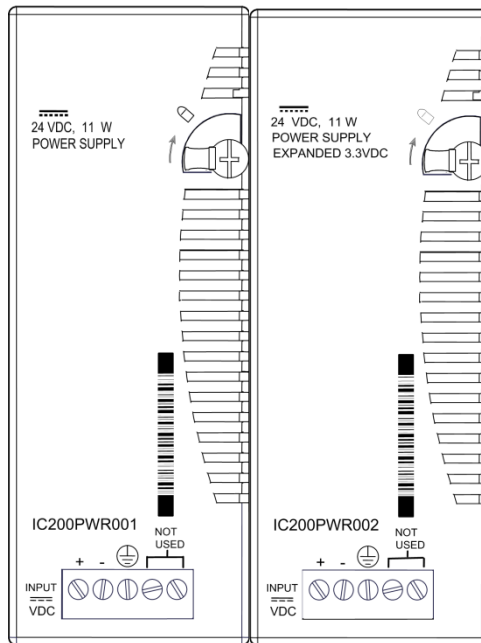


PACSystems™ VersaMax

24V, DC POWER SUPPLY

(IC200PWR001 & IC200PWR002)



Warning Notes as Used in this Publication



Warning

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury exist in this equipment or may be associated with its use.

In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.

Notes: Notes merely call attention to information that is especially significant to understanding and operating the equipment.

These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met during installation, operation, and maintenance. The information is supplied for informational purposes only, and Emerson makes no warranty as to the accuracy of the information included herein. Changes, modifications, and/or improvements to equipment and specifications are made periodically and these changes may or may not be reflected herein. It is understood that Emerson may make changes, modifications, or improvements to the equipment referenced herein or to the document itself at any time. This document is intended for trained personnel familiar with the Emerson products referenced herein.

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Product Description

24 V dc Power Supplies IC200PWR001 and IC200PWR002 provide backplane power for CPU, NIU, and I/O modules. When mounted on the CPU or NIU module, each serves as the main power supply for the station. They can also be used as a supplemental power supply when mounted on a Power Supply Booster Carrier.

Specifications

Specification	Description	
Input Voltage	18 to 30 VDC, 24 VDC nominal	
Input Power	11 W	
Holdup Time	10ms	
Inrush Current	20A for 6 ms maximum at 24VDC† 25A for 6 ms maximum at 30VDC†	
Output Voltage	5VDC, 3.3VDC	
Protection	Short circuit, overload, reverse polarity	
Output Current	Standard Power Supply (IC200PWR001G)	Enhanced Power Supply (IC200PWR002G)
Total	1.5 A‡ maximum	1.5 A‡ maximum
3.3VDC Output	0.25 A maximum	1.0 A maximum
5VDC Output	(1.5A - I _{3.3V}) max.	(1.5A - I _{3.3V}) max.

† The Inrush Current specification is given as a guide for sizing the external power source. Peak inrush current may be higher for shorter durations.

‡ The total output current should not exceed 1.5A. For example, if 3.3V @ 0.25A is required, 1.25A is available on the 5V output.

Preinstallation Check

Carefully inspect all shipping containers for damage. If any equipment is damaged, notify the delivery service immediately. Save the damaged shipping container for inspection by the delivery service. After unpacking the equipment, record all serial numbers. Save the shipping containers and packing material in case it is necessary to transport or ship any part of the system.

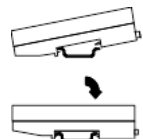
Installing a Power Supply Booster Carrier (optional)

The power supply can be installed on a CPU or NIU module, or on a Power Supply Booster Carrier. To install a booster carrier, follow the guidelines below.

Installing the Carrier on a DIN Rail

Connecting carriers must be installed on the same section of 35mm x 7.5mm DIN rail. The rail must have a conductive (unpainted) finish for proper grounding. For best resistance to vibration, the DIN rail should be installed on a panel using screws spaced approximately 6 inches (5.24cm) apart.

The carrier snaps easily onto the DIN rail. No tools are required for mounting or grounding to the rail.



Removing the Carrier from the DIN Rail

1. If the carrier is attached to the panel with a screw, remove the screw.
2. If the carrier is installed between other carriers, it will be necessary to move the other carriers along the DIN rail to disengage the mating connectors on both sides of the carrier being removed.
3. Slide the carrier along the DIN rail away from the other modules until the connector disengages.
4. With a small flathead screwdriver, pull the DIN rail latch tab outward while tilting the other end of the module down to disengage it from the DIN rail.

Installation in Hazardous Areas

Modules must be mounted within an ultimate enclosure that can only be accessed by the use of a tool.

The following information is for products bearing the UL and ATEX markings for Hazardous Areas.

- Power Supply Modules: Be sure to read the installation instructions provided with each Power Supply module. These instructions specify the use of copper conductors for the power supply, wire gauge and type.

⚠ WARNING

- WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2;
- WARNING - EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NONHAZARDOUS.

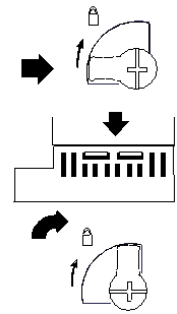
- Equipment labeled with reference to Class I, Div. 2, Groups A, B, C and D, Hazardous Locations is suitable for use in Class I, Div. 2, Groups A, B, C, D or non-hazardous locations only.

Installing the Power Supply

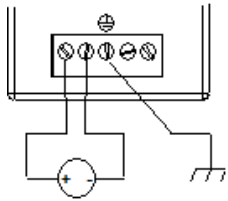
The power supply module installs on a CPU or NIU module or on a Power Supply Booster Carrier. The latch on the power supply must be in the unlocked position, as illustrated.

Align the connectors and the latch post and press the power supply module down firmly, until the two tabs on the bottom of the power supply click into place. Be sure the tabs are fully inserted in the slots as shown.

Turn the latch to the locked position to secure the power supply.



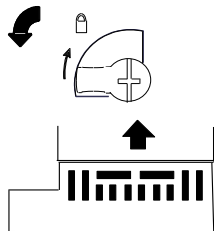
Installing Power and Ground Wiring



Connect an appropriate source of 24VDC to the power supply. Terminals accommodate one AWG #14 (avg. 2.1mm² cross section) to AWG #22 (avg. 0.36mm² cross section) wire, or two wires up to AWG #18 (avg. 0.86mm² cross section). Use copper wire rated for 90 degrees C. When inserting two wires in the same position, the wires must be the same size and type (solid or stranded). Connect the ground terminal to the conductive mounting panel with a 10cm (4-inch) maximum length of AWG #14 (avg. 2.1mm²) or larger wire. Use hardware such as star washers to ensure ground integrity.

Removing the Power Supply

Exercise care when working around operating equipment. Devices may become very hot and could cause injury.



1. Remove power.
2. Turn the latch to the unlocked position as illustrated.
3. Press in the tabs on the lower edge of the power supply.
4. Pull the power supply straight off.

Operating Notes

This product is intended for use as part of a control system. Its components are considered open equipment (having live electrical parts that may be accessible to users) and must be installed in an ultimate enclosure that is manufactured to provide safety. As a minimum, the enclosure shall provide a degree of protection against solid objects up to 12 mm (0.47 in), such as fingers. This equates to a NEMA/UL Type 1 enclosure or an IP20 rating (IEC60529), providing at least a pollution degree 2 environment.

Product Revision History

Revision	Date	Description
IC200PWR001J IC200PWR002J	Nov 2019	Following Emerson's acquisition of this product, changes have been made to apply appropriate branding and registration of the product with required certification agencies. No changes to material, process, form, fit or functionality.
IC200PWR001H IC200PWR002H	Oct 2016	EU RoHS compliant module per directive 2011/65/EU dated 8-June-2011. No changes to features, performance or compatibility.
IC200PWR001G IC200PWR002G	Jan 2012	Label change. No changes to features, performance or compatibility.

Technical Support & Contact Information:

Home link: <http://www.Emerson.com/Industrial-Automation-Controls>

Knowledge Base: <https://www.emerson.com/Industrial-Automation-Controls/support>

Note: If the product is purchased through an Authorized Channel Partner, please contact the seller directly for any support.

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