WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

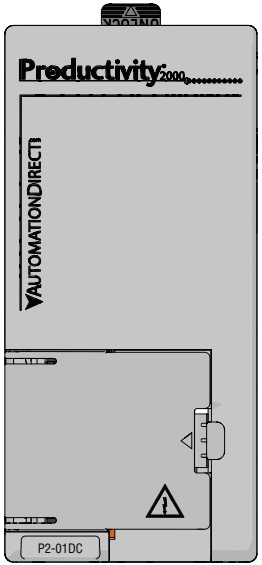
Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.

Terminal Block Specifications

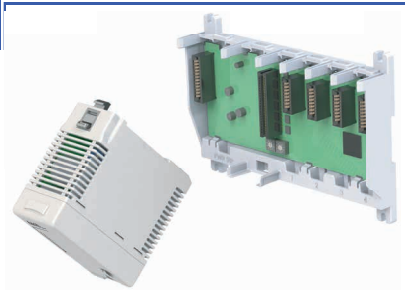
Number of positions	4 screw terminals
Wire Range	22–12 AWG (0.324 to 3.31 mm²) Solid / Stranded conductor 3/64 in (1.2 mm) insulation maximum Use copper conductors, 75°C or equivalent
Screw Driver Width	1/4 in (6.5 mm) maximum
Screw Size	M3
Screw Torque	7–9 lb·in (0.882–1.02 N·m)



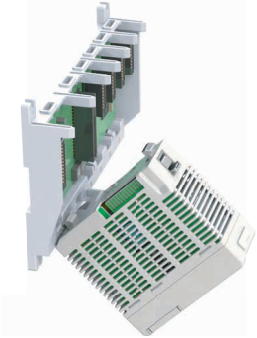
P2-01DC Power Supply

The P2-01DC Universal Input Power Supply provides isolated power to the Productivity2000 base from an external 24–48 VDC source.

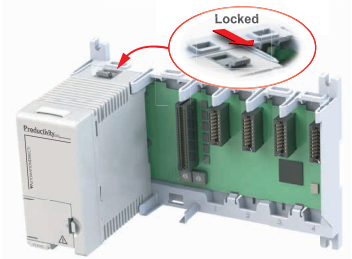
Power Supply Installation Procedure



Step One:
Locate the left most socket in the base.



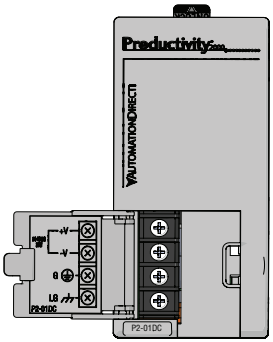
Step Two:
Insert the Power Supply at a 45° angle into the notch located at the bottom of the base and rotate up until seated in socket.

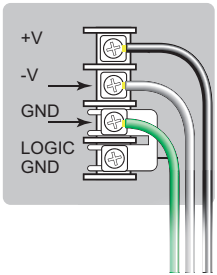


Step Three:
Snap the retaining tab into the locked position.

Power Hookup

P2-01DC





Grounding

A good common ground reference (earth ground) is essential for proper operation of the Productivity2000 system. One side of all control circuits, power circuits and the ground lead must be properly connected to earth ground by either installing a ground rod in close proximity to the enclosure or by connecting to the incoming power system ground. There must be a single-point ground (i.e. copper bus bar) for all devices in the enclosure that require an earth ground.

General Specifications

Operating Temperature	0º to 60ºC (32º to 140ºF)
Storage Temperature	-20º to 70ºC (-4º to 158ºF)
Humidity	5 to 95% (non-condensing)
Altitude	2,000 meters max
Pollution Degree	2
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Overvoltage Category	II
Enclosure Type	Open Equipment
Voltage Withstand (dielectric)	750VDC applied for 2 seconds
Insulation Resistance	>10 MΩ @ 500VDC
Module Location	Power Supply slot in a Productivity2000 System.
Weight	363g (12.8 oz)
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada and USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*

*Meets EMC and Safety requirements. See the D.O.C. for details.

User Specifications

Input Voltage Range (Tolerance)	24 to 48VDC (-15% / +20% @ 60°C)
Maximum Input Power	38W
Cold Start Inrush Current	34A
Maximum Inrush Current (Hot Start)	34A
Input Fuse Protection (Internal)	Micro fuse 250V, 4A Non-replaceable
Efficiency	75%
Output	UL Rated: 24VDC, 0.85 A 3.3 VDC, 3.81 A
Maximum Output Power	29W Combined
Heat Dissipation	9W
Isolated User 24VDC Output	None
Output Protection for Over Current, Over Voltage, and Over Temperature	Self resetting for both voltage outputs to base
Under Input Voltage Lock-out	<19.8V
Over Input Voltage Lock-out	NONE
Input Transient Protection	Varistor, plus input choke and filter
Operating Design Life	10 years at full load at 60°C ambient

IMPORTANT!

Important Hot-Swap Information

Note: This device cannot be Hot Swapped.

Document Name	Edition/Revision	Date
P2-01DC-DS	2nd Edition, Rev A	11/2/2023