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.

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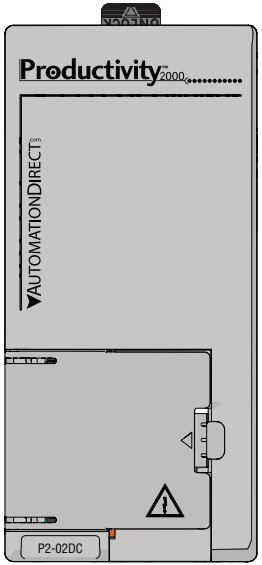
Terminal Block Specifications

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
Conductors	USE COPPER CONDUCTORS, 75°C or equivalent 1/4 in (6–7 mm) Strip Length
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)

*Recommended Screw Driver TW-SD-MSL-2



P2-02DC Power Supply

The P2-02DC 24V DC Input Power Supply provides power to the Productivity2000 base from an external 24VDC source.

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Terminal Block Specifications 1
Power Supply Installation Procedure 2
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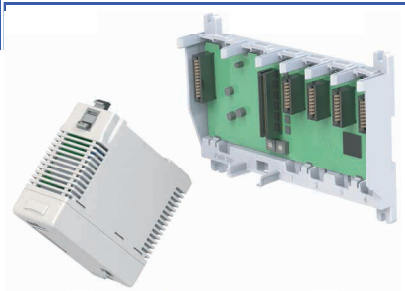
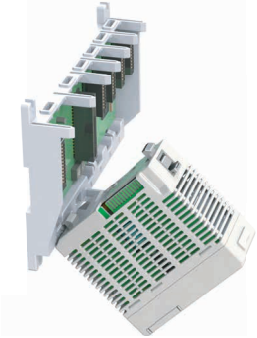
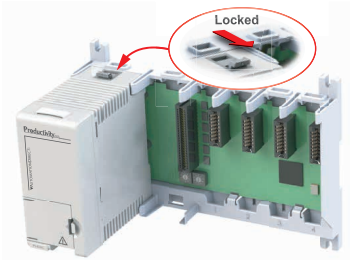
Power Supply Installation Procedure



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



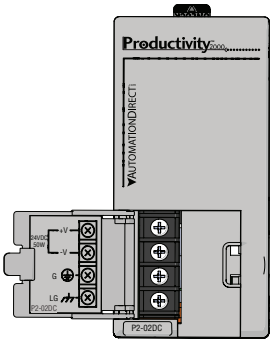
Step Two:
Insert the Power Supply at a 45° angle into the notch located at the bottom of the base and rotate up until seated in socket.

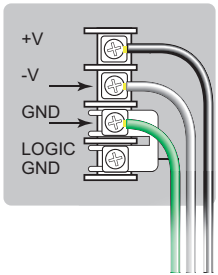


Step Three:
Snap the retaining tab into the locked position.

Power Hookup

P2-02DC





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)	Non-isolated
Insulation Resistance	Non-isolated
Module Location	Power Supply slot in a Productivity2000 System.
Weight	90g (3.2 oz)
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE (EN 61131-2 EMC, EN 61010-1 and EN61010-2-201 Safety)*

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

User Specifications

Input Voltage Range (Tolerance)	24VDC (±2%)
Maximum Input Power	50W
Cold Start Inrush Current	34A
Maximum Inrush Current (Hot Start)	34A
Input Fuse Protection (Internal)	Micro fuse 250V, 4A Non-replaceable
Efficiency	90%
Output	24VDC, 1.5 A 3.3 VDC, 4A
Maximum Output Power	45W Combined
Heat Dissipation	5W
Isolated User 24VDC Output	None
Output Protection for Over Current, Over Voltage, and Over Temperature	3.3 V output self resetting 24V output fused
Under Input Voltage Lock-out	NONE
Over Input Voltage Lock-out	NONE
Input Transient Protection	Transorb, 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
P2-02DC-DS	1st Edition, Rev D1	11/2/2023

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