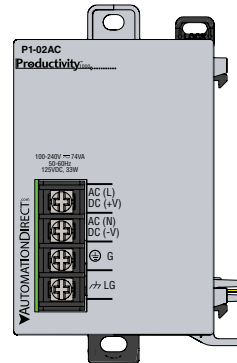


User Specifications	
Input Voltage Range (Tolerance)	100–240 VAC (-15% / +10%) 125VDC (-15% / +20%)
Rated Operating Frequency	50–60 Hz with ±5% tolerance
Maximum Input Power	75VA (AC) 33W (DC)
Cold Start Inrush Current	21A
Maximum Inrush Current (Hot Start)	21A
Input Fuse Protection (Internal)	Micro fuse 250V, 2A Non-replaceable
Efficiency	81%
Output	24VDC, 1.08 A
Maximum Output Power	26W
Isolated User 24VDC Output	None
Output Protection for Over Current, Over Voltage, and Over Temperature	Self resetting
Under Input Voltage Lock-out	40–75 VAC - 24VDC On @ 76.15 VAC 55–99 VDC - 24VDC On @ 100.2 VDC
Input Transient Protection	Varistor, plus input choke and filter
Operating Design Life	10 years at full load at 40°C ambient and 5 years at 60°C ambient
Maximum Module Count	Up to 15 modules



P1-02AC Power Supply

The P1-02AC Universal Power Supply provides isolated power to the Productivity1000 system from an external 100–240 VAC or 125VDC source. This power supply will provide power for up to 15 P1 I/O modules.

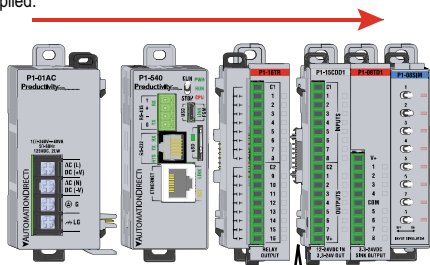
User Specifications	1
Power Supply Installation Procedure	2
Wiring	2
Warning	4
Terminal Block Specifications	4
General Specifications	4

Warranty: Thirty-day money-back guarantee. Two-year limited replacement (See www.productivity1000.com for details).

Module Installation

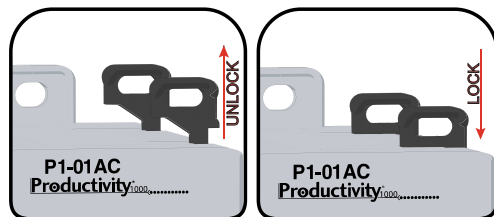
WARNING: Do not add or remove modules with field power applied.

Step One: With latch in "locked" position, align connectors on the side of each module and stack by pressing together. Click indicates latch is engaged.

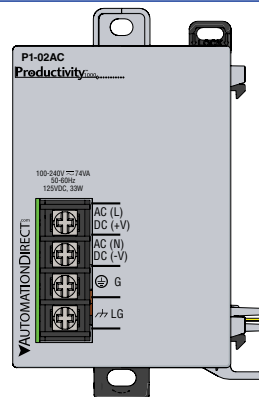


Check all latches are secure after modules are connected.

Step Two: To unstack modules, pull locking latch up into the unlocked position and then pull modules apart.

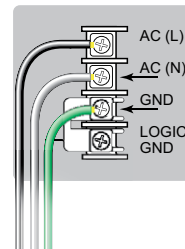
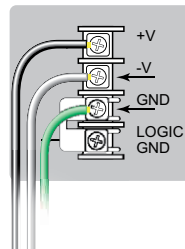


Power Hookup



125VDC

100-240 VAC



Grounding

A good common ground reference (earth ground) is essential for proper operation of the Productivity1000 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.

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

Positions	4 Screw Terminals
Wire Range	22–12 AWG (0.324–3.31 mm ²) Solid / Stranded Conductor 3/64 in (1.2 mm) Insulation Max. 1/4 in (6–7 mm) Strip Length
Conductors	*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)

*Recommended Screw Driver TW-SD-MSL-2

General Specifications

Operating Temperature	0° to 60°C (32° to 140°F)
Storage Temperature	-20° to 70°C (-4° to 158°F)
Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	IEC60068-2-6 (Test Fc)
Shock	IEC60068-2-27 (Test Ea)
Insulation Resistance	>10MΩ @ 500VDC
Heat Dissipation	6200mW
Enclosure Type	Open Equipment
Voltage Withstand (dielectric)	2100VDC applied for 2 seconds
Module Location	Power Supply latches to CPU in the module stacking Productivity1000 System.
EU Directive	See the "EU Directive" topic in the Productivity Suite Help File. Information can also be obtained at: www.productivity1000.com
Weight	164g (5.8 oz)
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*

*See CE Declaration of Conformance for details.

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