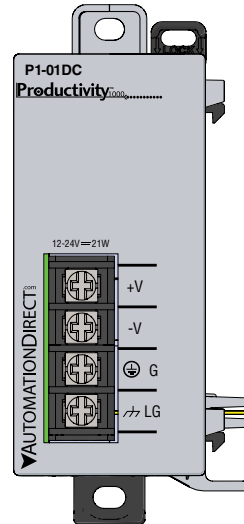


User Specifications	
Input Voltage Range (Tolerance)	12–24 VDC (-10% / +20%) @ 60°C
Maximum Input Power	21W
Cold Start Inrush Current	34A
Maximum Inrush Current (Hot Start)	34A
Input Fuse Protection (Internal)	Micro fuse 250V, 4A Non-replaceable
Efficiency	75%
Output	24VDC, 0.67 A
Maximum Output Power	16W
Isolated User 24VDC Output	None
Output Protection for Over Current, Over Voltage, and Over Temperature	Positive temperature coefficient resettable fuse, resets when load removed
Under Input Voltage Lock-out	< 9V
Over Input Voltage Lock-out	NONE
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 8 modules

P1-01DC Power Supply

The P1-01DC Universal Input Power Supply provides isolated power to the Productivity1000 base from an external 12–24 VDC source.



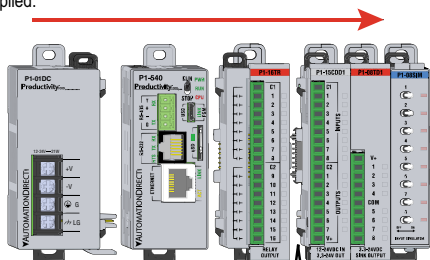
User Specifications	1
Power Supply Installation Procedure	2
Wiring	2
Warning	4
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General Specifications	4

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

Module Installation

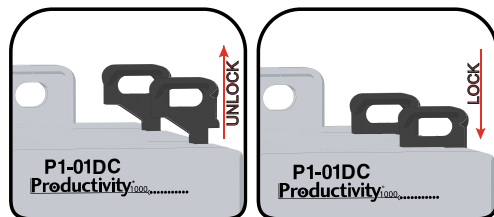
WARNING: Do not add or remove modules with field power applied.

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

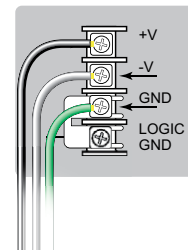
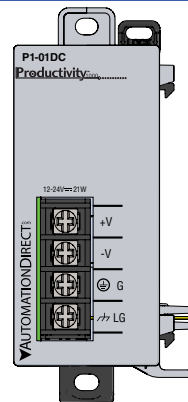


Check all latches are secure after modules are connected.

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



Power Hookup



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	>10 MΩ @ 500VDC
Heat Dissipation	5W
Enclosure Type	Open Equipment
Voltage Withstand (dielectric)	750VDC 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	137g (4.8 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.

Document Name	Edition/Revision	Date
P1-01DC-DS	1st Edition, Rev A	4/30/2019

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