Power Supply

P2-01AC <--->

The P2-01AC Input Power Supply provides isolated power to the Productivity2000 base from an external 100-240 VAC source.

No power budgeting is required. Any combination of I/O modules may be installed in any slots without power budget considerations.



P2-01AC

P2-01AC Specifications

P2-01AC User Specifications		
Input Voltage Range (Tolerance)	100 to 240 VAC (-15% / +10%)	
Rated Operating Frequency	50 to 60 Hz with ± 5% tolerance	
Maximum Input Power	37.4 W	
Cold Start Inrush Current	23.6 A	
Maximum Inrush Current (Hot Start)	25.6 A	
Input Fuse Protection (Internal)	Micro fuse 250V, 1A, Non-replaceable	
Efficiency	75%	
Output	24VDC, 0.85 A	
	3.3 VDC, 3.81 A	
Maximum Output Power	29W Combined	
Heat Dissipation	8.4 W	
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	55-65 VAC	
Over Input Voltage Lock-out	265-280 VAC	
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	

P2-01AC 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)
Enclosure Type	Open Equipment
Voltage Withstand (dielectric)	2100 VDC applied for 2 seconds
Insulation Resistance	>10M 0 @ 500VDC
Module Location	Power Supply slot in a Productivity2000 System.
EU Directive	See the "EU Directive" topic in the Productivity Suite Help File. Information can also be obtained at: www.productivity2000.com
Weight	90g (3.2 oz)
Agency Approvals**	UL508 file E139594, Canada & USA CE (EN61131-2*)

*Meets EMC and Safety requirements. See the Declaration of Conformity for details. **To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific component part number web page.

Terminal Block Specifications		
Number of Positions	4 Screw Terminals	
Wire Range	22-14 AWG (0.324 to 2.08 sq. mm) Solid Conductor 22-14 AWG (0.324 to 2.08 sq. mm) Stranded Conductor 3/64 inch (1.2 mm) insulation maximum	
Screw Driver Width	1/4 inch (6.5 mm) maximum	
Screw Size	M3 size	
Screw Torque	7- 9 inch-pounds (0.882 - 1.02 Nm)	

Power Supply

Power Supply Installation

Power Connections

P2-01AC

Productivity

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LOGIC GND

CLICK PLC

Control Systems Overview

Direct

Do-More PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

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Productivity 3000

Productivity 2000

Universal Field I/O

Software

C-More HMI

C-More Micro HMI

ViewMarq

Industrial Marquees

Other HMI

Communications

Appendix Book 1

Terms and Conditions

Locked

Step Three:

Step One:

Step Two: Insert the Power

Supply at a 30° angle

into the notch located

at the bottom of the

base and rotate up until seated in socket.

Locate the left most

socket in the base.

Snap the top retaining tab into the locked position.

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.

