2500 Series® Compact System

2500C-PADP-120V 120VAC 50 Watt Power Supply

Input Specifications◊	
Field Wiring Connector	Wired to the 500 base
Input Voltage Operating Range	80-264 VAC, 47-63Hz, single phase
Total Wattage Rating	50 watts maximum output @ 0 to 60ºC
Steady State Input Current at full Load	1.10 Amps max @ 90VAC 0.90 Amps max @ 120VAC 0.45 Amps max @ 240VAC
Peak Inrush Current	9.4 Amps max @ 120VAC 18.7 Amps max @ 220VAC
Fusing ⚠	1.25 Amp slow blow 240VAC, 3 x 20mm front panel accessible **Littelfuse P/N 02191.25MXAP**
Hold Up Time	57 mSec @ 50 Watt Full Load

Module Size	Designed to mount directly in the 500 IO base
Isolation	1500VAC: 110/220 VAC-to-Backplane 500VDC: Chassis-to-Backplane 1500VAC: 110/220 VAC-to-Chassis IEC 60950-1
Operating Temp Range	0ºC to 60ºC (32ºF to 140ºF)
Storage Temperature	-40ºC to 85ºC (-40ºF to 185ºF)
Relative Humidity	5% to 95% (non-condensing)
Shipping Weight	2.0 lb. (0.91 Kg)
Agency Approvals Pending	UL, ULC, FM(Class 1, Div 2), CE
◊ Note: All measurements are made from a power supply at 25ºC .	

DESCRIPTION

The 2500C-PADP-120V has been designed to replace the Siemens® Simatic 500 base Power Supply. It plugs directly into the base using the original 500 mounting design and requires no wiring changes. This power supply provides power for the CPU's, RBC's and all IO modules plugged in the 500 Chassis.

FEATURES

- Direct replacement for :
  500-2151 & 500-2151-A
- 110/220 VAC 50/60Hz
- Maximum 50watts backplane power
- 57 mSec holdup time
- No wiring changes

⚠ Note: Ideally the power should be turned off to the power supply before doing any maintenance. It must be noted that when the fuse is either blown or removed the CPU will go into a normal shutdown. Replacing the fuse with the power off guaranties the system will come up in an orderly fashion. Replacing the fuse while power is still on could create unpredictable restart issues.

Control Technology Inc.
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www.controltechnology.com

CTI products are proudly Designed and Assembled in the USA

CE

 19 September 2023

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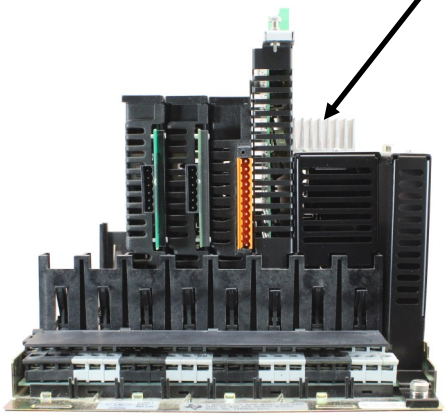
2500C-PADP-120V 120VAC 50 Watt Power Supply

2500C Compact Power Supplies. Notice the height is much lees than the original 500 Power Supplies. No re-wiring is required.



Warning:
Disable all power to the base before installing or removing the power supply. Failure to do so could cause damage to the equipment or injury to personnel.

Caution:
Do not attempt to operate the 2500C-PADP-120V out of the Voltage Operating Ranges specified. Damage to the Power Supply could occur if out of range power input is applied.

Installing Power Wiring

Use the following steps for installing and removing the 2500C-PADP-120V Power Supply from the 2500C Chassis.

1. Position the power supply so that the bezel is facing you.
2. Grasp the top and bottom of the power supply
3. Carefully slide the power supply into the left most slot in the base until it engages into the backplane connector.
4. Check to make sure the power input wires are securely inserted and the fastened in the wiring connector.
5. Be sure to push the top and bottom latches into the latched position to secure the Power Supply.
6. Once all the chassis modules including controllers and IO are inserted then you may apply power to the power supply inputs.

To remove the power supply, remove power from the power input turning off the power source, disengage the top and bottom mechanical latches, and pull the power supply forward out of the chassis until it clears the chassis.

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CAUTION – Non-Hazardous Areas/Hazardous Areas

WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.	AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.
WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSE WHEN ENER-GIZED.	AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER UN FUSIBLE SI L'APPAREILLAGE EST SOUS TENSION.

Turn off power to the system before replacing fuses either in power supplies or IO modules. Refer to Product Bulletin or Installation and Operation Guide for specific information on the correct fuse for replacement. If there are any questions please contact CTI support. Fuses should only be replaced by qualified technicians.

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