

The OA-120USPS-50A utilizes switch mode technology to convert 120VAC to 24 VDC. It has a maximum output capacity of 1200W and an output range of 24 to 28VDC.

**Key Features:**

- Rugged enclosure for industrial environments.
- Non-defeatable disconnect switch
- Twist-Lock Connections
- Louvered fan vents with filters
- Input and Output "ON" indicator LEDs
- Tightly regulated output with Ripple and Noise < 50mV rms.

This power supply is ready to be mounted and wired right out of the box, making it ideal for powering motorized roller conveyor. It is also an excellent solution for other 24VDC motor or high power applications.



**Protection Features:**

- Reverse Polarity Protection.
- Brown-Out Input Protection.
- Over-Current Protection – cycle by cycle peak as well as rated current limiting to maximize life of power supply.
- Over- Temperature Protection.

**Warranty:**

The OA-120USPS-50A power supply is warranted to be free of defects in materials or workmanship under normal use and service. This warranty is in effect for one year from the date of purchase.

If upon the Warrantor's examination the defect proves to be the result of defective workmanship or materials, he equipment will be repaired or replaced at the Warrantor's option without charge, and the returned to the Purchaser at the Warrantor's expense.

No refund of the purchase price will be granted to the Purchaser, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so.

Only the Warrantor shall perform warranty service. Any attempt to remedy the defect by anyone other than the Warrantor shall render this warranty void.

There shall be no warranty for defects or damages caused by faulty installation, abuse, or misuse of the equipment including exposure to excessive heat, salt or fresh water spray or immersion.

The Warrantor assumes no liability for incidental or consequential damages of any kind.

**Specifications:**

Output Voltage	24 – 28VDC
Output Voltage Tolerance	+ or – 0.5VDC
Output Current Max.	50 Amps
Maximum Power Output, Continuous.	1200 Watts
Ripple and Noise	< 50 mV rms
Input Voltage Range	108–132 VAC
Input Voltage Frequency	47 – 63 HZ
Maximum AC Current	20 Amps
Typical Efficiency	> 80%
Max. Inrush Current, Single Cycle	20 Amps
Short Circuit Protection	Yes
Overload Protection	> 100%
Line Regulation	100 mV rms
Load Regulation	< 1 %
Fan Control	Proportional
Working Temp. Range	0 – 40 C
Storage Temp. Range	-20 – 80 C
Withstand Voltage	1240V @ Leads
Dimensions	12" x 12" x 6"
Weight	27 lbs.
Standards	UL508C

**Installation Guidelines:**

**All electrical installations must meet local and national wiring codes and should be performed by a qualified technician.**

**There are no components within the OA-120USPS-50A unit that, in their normal operation produce arcs or sparks. However, all electronics have some potential for generating sparks in the event of failure. Therefore, never install this device in the same compartment with flammable items.**

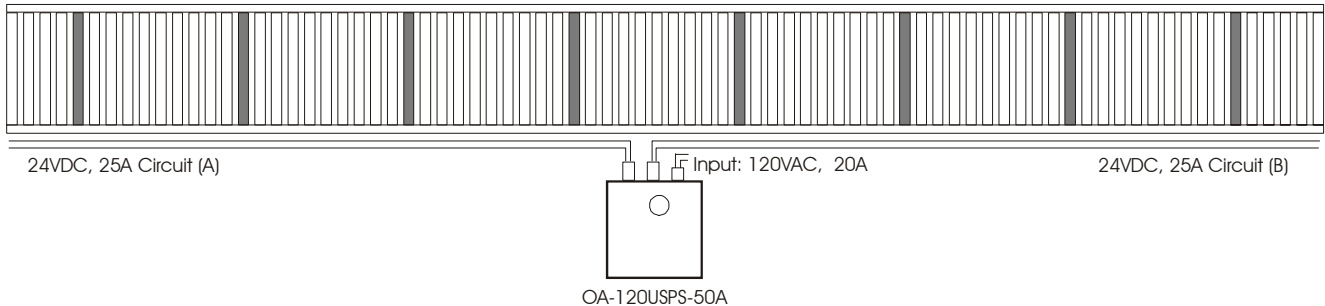
OA-120USPS-50A **should not** be mounted in an enclosed interior compartment. Provide sufficient air space to allow unrestricted airflow in and around unit.

Mount the OA-120USPS-50A midpoint of conveyor section that is to be powered. Connect 120VAC input voltage to Twist-Lock connector body and plug into corresponding Twist-Lock flanged inlet connector.

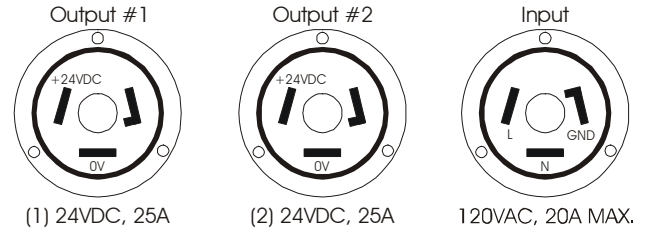
The 24VDC output consists of two 25A circuits. Each circuit has a 25A breaker, which if tripped can be reset by pushing breaker button back in. Connect output branch circuits to Twist-Lock plugs and plug into corresponding Twist-Lock flanged receptacle connectors. Run the 25A output circuits in opposite directions along the length of the conveyor, to create a power bus. Tap-off power bus to power motorized rollers and other 24VDC devices.

The output voltage can be adjusted between 24 and 28VDC. To adjust output, turn disconnect to “off” position, open enclosure and locate potentiometer. Use a small screwdriver and voltmeter to adjust output voltage to desired level. Default output voltage is 24VDC.

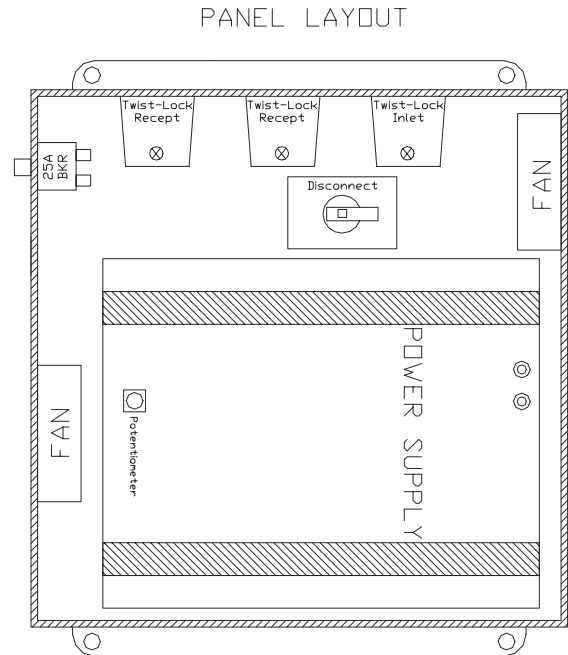
**OA-120USPS-50A Conveyor Application:**



**Connection Diagram:**



**Potentiometer Location:**



Chandler, Arizona  
 PHONE 480-216-3286 FAX 480-633-9623  
 www.omni-az.com