Advanced

Axis AX

PSN Series Power Supplies

The PSN series of notification power supplies offers reliable notification power with unprecedented versatility. The power supplies offer either 6 or 10 amps of continuous power through 4 or 6 outputs respectively. Each output is rated at 3 amps and it may be used continuously without any derating.

The power supply operates on either 120 VAC or 220 VAC power input and has a regulated 24 VDC output. In addition, the panel can charge up to 55 AH batteries. The cabinet is constructed of 18 gauge cold rolled steel and has a durable red powder coat finish. In addition, a key lock is provided for securing the door. Ample electrical knockouts are provided allowing the installer options for running wires and maintaining the correct separations.

The power supply offers an industry leading QuadraSync function that allows for multiple strobe circuits of different brands to be synchronized to flash at the same time. The supply can have four different brands, each connected to its own circuit and all of the strobes flash together. Each output can independently be configured to provide one of four synchronizations or steady power. This provides unequivocal flexibility in new and retrofit installations.

The supply can be configured to synchronize Potter/ AMSECO®, Gentex®, Wheelock® and System Sensor® strobe devices. Each output can be configured as the same sync protocol or set independently.

In addition, the supply has an input PassThru mode that allows the outputs to follow the input signal and sync up to the input flash. The supply will recognize the type of input being supplied and pass this through to the outputs with the same pattern. The input pass through can be selected on each output independently.

The power supply contains simple dipswitch programming and LED indications providing the installer with indications of the operation and the ability to correct any faults. A Trouble Memory is provided to allow an installer to review past troubles and make the necessary repairs. Each output has an LED to pinpoint the exact circuit where a problem may have occurred. Relays are provided for monitoring the general system and AC failure.



Enclosure Dimensions: 16 1/8"W x 16 3/4"H x 3 1/2"D

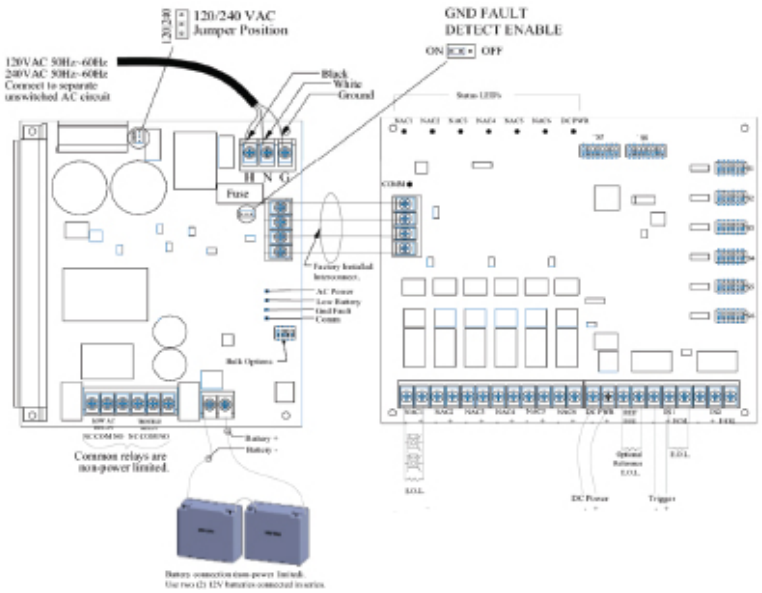
Features

- Sychronized Notification Appliance Circuits
- Configurable DIP Switch Output Circuit Programming
- Reference EOL Allows 2K-27K EOL Value
- QuadraSync Synchronization for Multiple Brand Usage
- PassThru Mode Operation Allow Matched Input Synchronization
- AX-PSN-64 Provides 6 Amps with 4 Outputs
- AX-PSN-106 Provides 10 Amps with 6 Outputs
- Outputs Rated at 3 Amps Each
- Two Trouble Relay Contacts (5A at 30VDC) - General System Trouble (Programmable for AC Delay) - Low AC Trouble
- Diagnostic LED's for: NAC Active, NAC Trouble, Earth Fault, AC On, Battery Fault

Listings and Approvals

- UL 864 Listed: file UOXX.S24460
- ULC Listed: file UOXX7.S24460
- CSFM Approved: 7315-0328:0189
- NYCFD COA #6105

Wiring Diagram



Engineering Specification

The contractor shall supply and install the AX PSN Series power supply. The power supply shall operate on either 120 or 240 VAC input. The supply shall be capable of continuous load power without any degradation to the main supply or the distribution board. The cabinet shall be capable of housing up to 18 AH batteries and the supply shall be capable of charging up to 55 AH batteries in an external cabinet.

The supply shall have dip switches for simplistic configuration of the system and LEDs to provide visual indication of the status of the system. The dip switches shall allow for AC power delay selection, Class A/B operation per output, Door Holder Power options, constant auxiliary power, trigger input type, ANSI Code 3 Temporal Code, Pass Thru (input tracking), Potter/AMSECO® sync, Gentex® Sync, System Sensor® Sync or Wheelock® sync.

The LEDs shall provide indication of communication between the power supply and distribution circuit assemblies. The LED's shall have distinct flash patterns to provide further indication of the troubles present. The supply shall have selectable Trouble Memory to provide the installer with an indication that a past trouble existed on a circuit for diagnostic purposes.

Each output of the power supply shall be capable of 3 amps of continuous power without degradation over time. The power supply shall provide for multiple circuits of strobe appliances. The power supply shall synchronize the flashes of any of the above listed strobe appliances on a per circuit basis. Up to four different strobe circuits may be connected and all of the strobes shall flash in unison as required by UL 864. In addition to this Quadrasync feature, the supply shall allow any of the four above mentioned sync patterns as an input and pass this signal through and synchronize the outputs to match the input flash pattern.

Ordering Codes and Options

AX-PSN-106	10 Amp Power Supply
AX-PSN-64	6 Amp Power Supply

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Axis AX

Expansion Power Supply Module

The CAX-PSU is an Expansion Power Supply Module for use with the Advanced Axis AX Series Intelligent Fire Alarm Control Panels. The Expansion Power Supply Module provides an additional 5 amp of filtered, regulated, 24 VDC power for notification appliance circuits and auxiliary power outputs.

The CAX-PSU is a completely self-contained, temperature compensated, switching power supply designed to maximize energy and enclosure space.

Simple to install, the CAX-PSU typically mounts in an Axis AX Series enclosure. The unit mounts with screws to dedicated standoffs located on the right-hand side of the enclosure back box, below the base card. AC power is fed from the AC terminal block of the Axis AX Series CAX-ACB module to the CAX-PSU via a pluggable Molex connector. Expansion Power Supply Module availability and supervision is accomplished through wiring of the CAX-PSU to the Axis AX Series CAX-CTL base card.



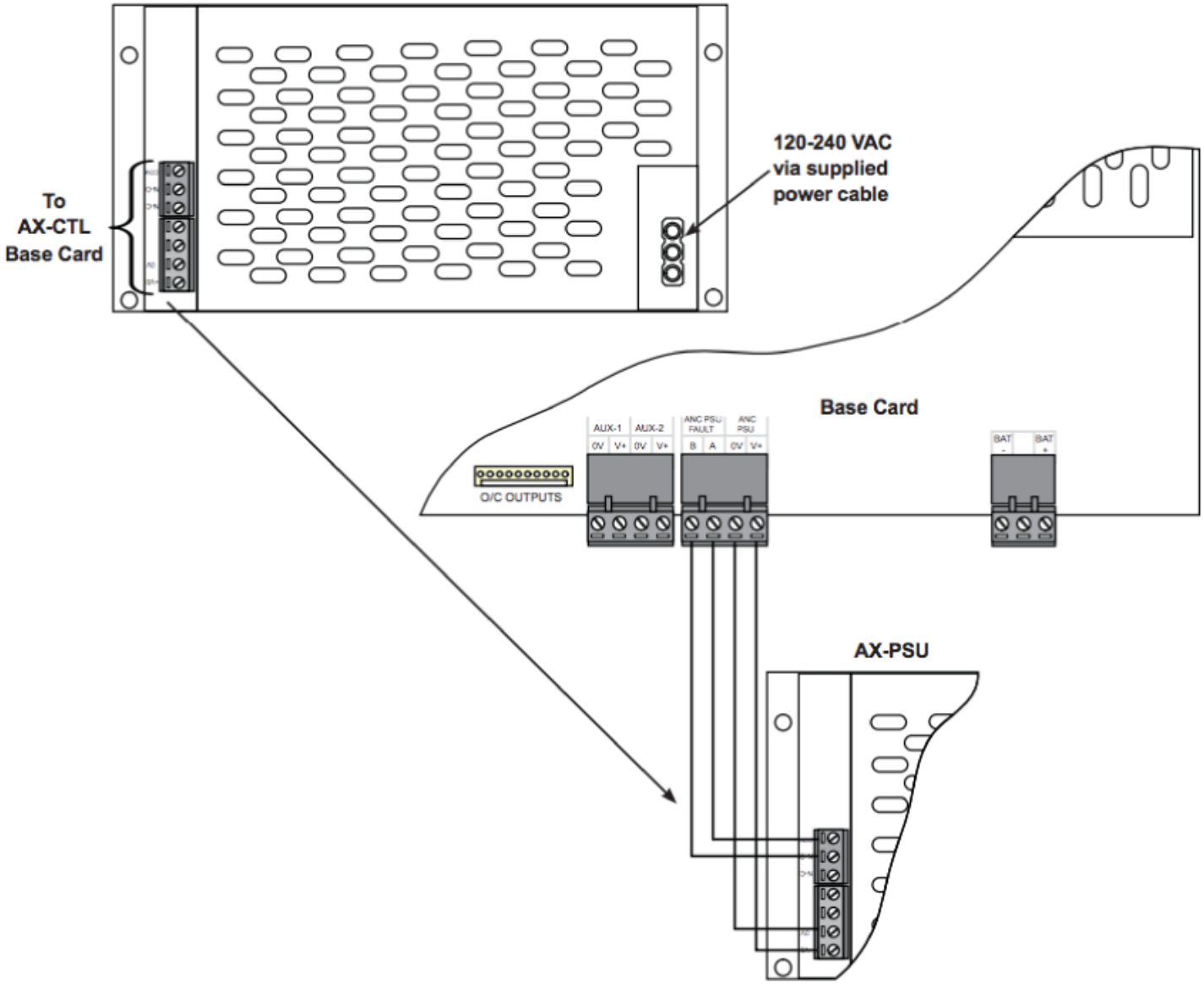
Features

- 120 or 240 VAC Input, 50/60 Hz
- 27.4 VDC @ 5 Amp
- Temperature Compensated Output
- Switching Power Supply Technology
- Filtered & Regulated Power Output
- Emissions & Safety Shield
- ANSI / UL 864 Listed
- 5 Amp @ 24 VDC Filtered, Regulated Supply
- Easy Cabinet Mount
- Energy & Space Saving Design
- Fully Self-Contained

Listings and Approvals

- CAN/ULC-S527-11 & CAN/ULC-S559-04 Listed: 100780709NYM-001

Wiring Diagram



Specification

AC Input	120 VAC - 240 VAC, 2.7 Amp (Max), 50/60 Hz
DC Output Voltage Current	 27.4 VDC 5 Amp
Output Voltage	Filtered, Regulated Temperature Compensated (Tracks AX-CTL Base Card DC Supply)
Environment	Indoor, Dry
Operating Temperature	32ºF-120ºF (0ºC-48ºC)
Humidity	10-95% (Non-condensing)
Dimensions	7.19”W x 3.69”H x .2.31”D
Weight	1 lb 10 oz

Order Codes and Options

CAX-PSU	Expansion Power Supply Module
521-175	AX-PSU, AC Cable Replacement

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Power Supply Charger

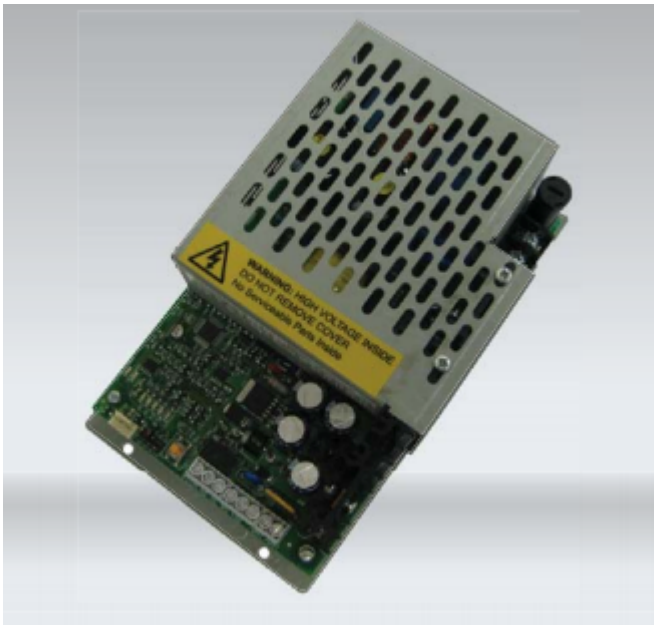
The Advanced CAX-PSU-6, Power Supply Charger, is an Axis AX Series power supply charger for use with the Advanced CAV-AMP-80, Audio Amplifier Module, and other peripheral products requiring 24 VDC and battery backup.

The CAX-PSU-6 is a completely self-contained microprocessor controlled; switching power supply designed using the latest surface mount technology to maximize energy and enclosure space.

Simple to install, the CAX-PSU-6 typically mounts in an Axis AX Series, CAV-VBM or CAV-VB enclosure. The unit mounts with screws to dedicated standoffs located each type of enclosure.

The charger of the CAX-PSU-6 supplies a supervised temperature compensated 1.5 Amp charger current which can charge up to 45 Ah batteries. In addition, the charger offers battery protection against deep discharge and supervises for battery cell failure.

Each CAX-PSU-6, Power Supply Charger, incorporates a fail-safe Form “C” trouble relay contact for use in monitoring power supply charger status. In addition to the trouble contact, there are seven (7) onboard diagnostic LEDs for indication of proper operation, ground fault, battery status, charger and power supply status.



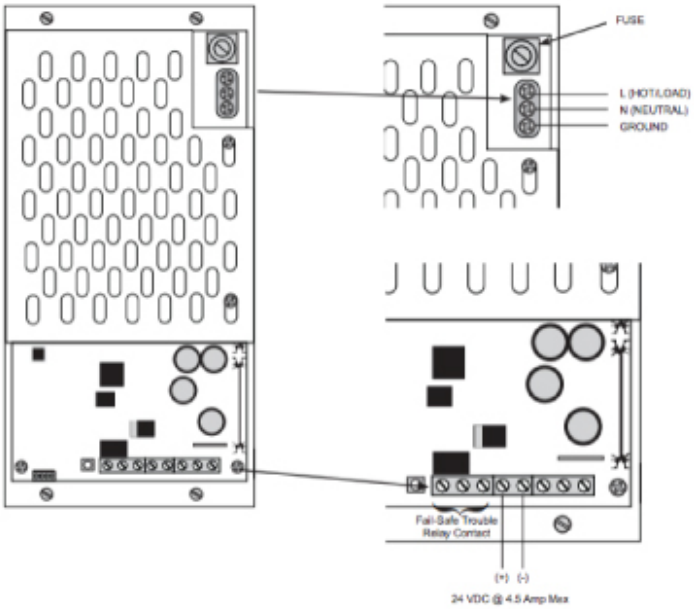
Features

- 120 or 240 VAC Input, 50/60 Hz
- 6 Amp Power Supply Charger (1.5 Amp dedicated to battery charging)
- Charger Monitors for Battery Cell Failure
- Interfaces to CAV-AMP-80 Amplifier and other Advanced Products
- Integral Emissions & Safety Shield
- 24 VDC Filtered, Regulated Power
- Max 1.5 Amp Charger Current, for 45 Ah Batteries. Deducted from overall 6 Amp supply
- High Efficiency Switching Mode Power Supply
- Fully Self-Contained
- Form C Fail-Safe Trouble Contact
- Dedicated Diagnostic LEDs

Listings and Approvals

- CAN/ULC-S527-11 & CAN/ULC-S559-04 Listed: 100780709NYM-001

Wiring Diagram



Specification

AC Input	120 VAC - 240 VAC, 3 Amp (Max), 50/60 Hz
DC Supply Voltage Current (Including charger)	Filtered, Regulated 24 VDC 6 Amp (1.5 Amp Dedicated to Battery Charging)
Battery Charger Capacity Maximum Battery	Max 1.5 Amp (Deducted from Overall 6 Amp Supply) 45 Ah
Environment	Indoor, Dry
Operating Temperature	32°F-120°F (0°C-48°C)
Humidity	10-95% (Non-condensing)
Dimensions	7 1/4” L X 4 1/4” W X 2 5/8” H
Weight	1 lb 10.6 oz

Order Codes and Options

CAX-PSU-6	Power Supply Charger

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