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› [POTTER PSN-106B 10 AMP 6 NAC Power Supply User Manual](#)

POTTER PSN-106B

POTTER PSN-106B 10 AMP 6 NAC Power Supply User Manual

Model: PSN-106B

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the POTTER PSN-106B 10 AMP 6 NAC Power Supply. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

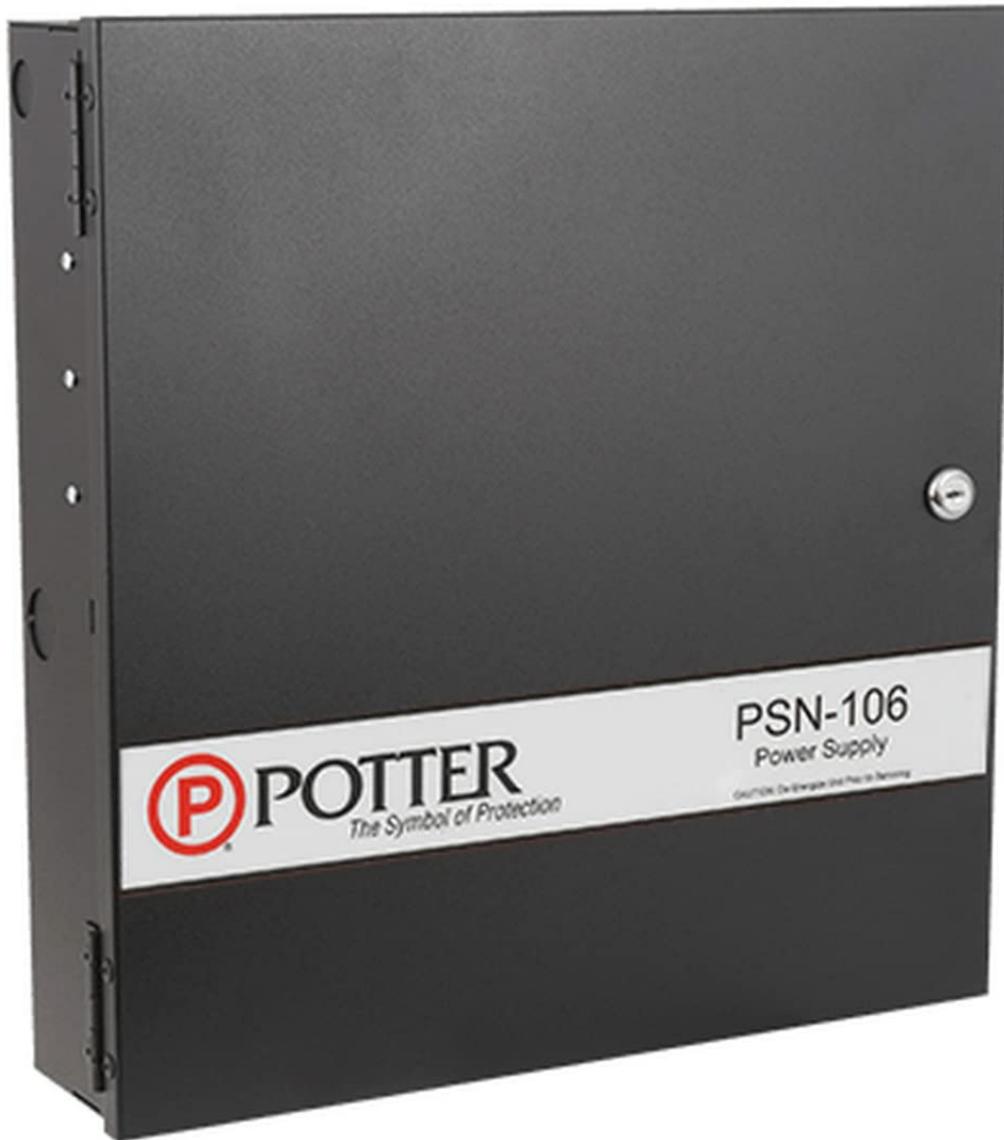


Figure 1: POTTER PSN-106B 10 AMP 6 NAC Power Supply. This image shows the front view of the power supply, highlighting its black casing and the layout of its connection terminals and status indicators.

2. SAFETY INFORMATION

WARNING: Installation and servicing must be performed by qualified personnel only. Disconnect all power sources before servicing to prevent electric shock or equipment damage.

- Always follow local and national electrical codes.
- Ensure proper grounding of the unit.
- Do not expose the unit to moisture or extreme temperatures.
- Verify input voltage and current ratings before connecting to a power source.

3. PRODUCT OVERVIEW

The POTTER PSN-106B is a 10 AMP, 6 NAC (Notification Appliance Circuit) power supply designed for fire alarm and security

applications. It provides regulated and filtered power to connected devices.

Key Features:

- 10 Amp total output current.
- Six independently supervised Notification Appliance Circuits (NACs).
- Built-in battery charger for standby power.
- Fault monitoring and reporting capabilities.

4. SETUP AND INSTALLATION

4.1 Mounting the Unit

1. Select a suitable location that is clean, dry, and free from excessive vibration or heat.
2. Mount the power supply securely to a wall or other stable surface using appropriate fasteners. Ensure adequate ventilation around the unit.

4.2 Wiring Connections

Refer to the wiring diagram provided inside the unit's enclosure for specific connection points. All wiring must comply with NFPA 70 (National Electrical Code) and NFPA 72 (National Fire Alarm and Signaling Code).

- **AC Power Input:** Connect the main AC power source to the designated terminals. Ensure the power source matches the unit's voltage requirements.
- **Battery Connections:** Connect standby batteries to the battery terminals, observing correct polarity. Batteries are essential for maintaining power during AC failures.
- **NAC Outputs:** Connect notification appliances (horns, strobes, etc.) to the NAC terminals. Each NAC is supervised for open and short circuits.
- **Auxiliary Outputs:** Connect auxiliary devices requiring regulated power to the auxiliary power terminals.
- **Trouble/Supervisory Relays:** Connect these outputs to the main fire alarm control panel (FACP) for remote fault reporting.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

1. After all wiring is complete and verified, apply AC power to the unit.
2. Observe the status indicators. The AC POWER LED should illuminate steadily.
3. If batteries are connected, the BATTERY CHARGE LED should indicate charging status.

5.2 Status Indicators

Indicator	Status	Description
AC POWER	Green (Steady)	AC power is present and within normal operating range.
BATTERY	Green (Steady)	Batteries are connected and fully charged.
BATTERY	Yellow (Flashing)	Batteries are charging.
TROUBLE	Yellow (Steady)	A fault condition exists (e.g., AC failure, battery fault, ground fault, NAC fault).
NAC 1-6	Green (Steady)	NAC is active and supplying power.
NAC 1-6	Yellow (Steady)	NAC fault detected (open or short circuit).

6. MAINTENANCE

Regular maintenance ensures the reliable operation of your PSN-106B power supply. All maintenance should be performed by qualified personnel.

- **Monthly:** Inspect the unit for any visible damage. Verify all status indicators are normal.
- **Annually:** Test battery voltage and capacity. Replace batteries as recommended by the manufacturer (typically every 3-5 years). Clean any dust accumulation from the enclosure and ventilation openings.
- **Record Keeping:** Maintain a log of all inspections, tests, and maintenance performed.

7. TROUBLESHOOTING

If the unit exhibits abnormal behavior, refer to the following table before contacting technical support.

Problem	Possible Cause	Solution
AC POWER LED Off	No AC input power.	Check circuit breaker, power cord, and AC input terminals.
TROUBLE LED On	General fault condition.	Check other status LEDs for specific fault (e.g., battery, ground, NAC).
BATTERY LED Yellow (Steady)	Battery fault or low battery.	Check battery connections, voltage, and age. Replace if necessary.
NAC LED Yellow (Steady)	NAC open or short circuit.	Inspect wiring on the affected NAC for breaks or shorts. Verify end-of-line resistor.

8. SPECIFICATIONS

Parameter	Value
Model	PSN-106B
Brand	POTTER
Output Current	10 Amps (Total)
NACs	6
Wattage	100 watts
UPC	742779300829
ASIN	B09LFLWWD
Date First Available	November 9, 2021

9. WARRANTY AND TECHNICAL SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official POTTER website. For technical assistance, contact POTTER customer support. Ensure you have your model number (PSN-106B) and purchase details available when contacting support.

Manufacturer: POTTER

Web: www.pottersignal.com (Example link, actual link may vary)



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