



■ Description

Nittan's NFU-PS-10A is an Auxiliary Power Supply/ NAC Expander that works with listed SPERA™ series fire alarm control panels. Available in a 10 Amp configuration, the NFU-PS-10A can extend the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. In addition, the NFU-PS-10A has the ability to operate with any UL Listed conventional 24 VDC fire alarm control panel to provide Notification Appliance Circuit expansion.

The NFU-PS-10A is equipped with five individual Class B (Style Y) or Class A (Style Z) output circuits that can be independently configured for NAC operation or auxiliary power. The NFU-PS-10A provides the option of configuring all five circuits as an output to provide general purpose power. In addition output circuits four and five can be configured to provide auxiliary power for four-wire detectors or door holders.

Each output circuit is rated for 2.5 Amps. When configured for NAC operation the outputs can be set for Steady, Temporal Code, California Code or March Time. In addition the output circuits have field selectable built-in strobe and horn synchronization protocols to eliminate the need for additional external synchronization modules.

■ Features

- 10 Amp output
- 120 / 240V operation
- Works with listed SPERA™ Series Fire Alarm Control Panels
- Easily configured using DIP switches
- One isolated input from the host panel
- Five Class B (Style Y) or Class A (Style Z) synchronized output circuits
- DC regulated outputs
- Configurable AC Power fail delay
- Ground fault enable or disable
- Option available on configuration to enable or disable the battery charger on activation
- Outputs individually controllable
- Separate Relay for Ground Fault and Common Trouble available on terminals
- Horn/Strobe synchronization protocols
- Two-wire horn/strobe Sync Mode allows audible notification appliances (horns) to be silenced while visual notification appliances (strobes) continue to operate
- Audible signals may be configured for Steady, Temporal Code, California Code and March Time
- Output circuits four and five can be configured to provide auxiliary power for four-wire detectors or door holders.
- Output fault notification to fire alarm control panel
- Ability to sync outputs for multiple NFU-PS-10A units
- 2.5 Amp max. current per output
- 1.7 Amp auxiliary power output
- Built-in charger for sealed lead acid or gel type batteries
- Unit includes power supply, charger, red door, black backbox, transformer and battery leads
- Compatible with any UL listed 24VDC conventional fire alarm control panel to provide Notification Appliance Circuit expansion



■ Modes of Operation

Power Supply Modes

In addition to the NAC expander modes, some or all of the NAC outputs on the NFU-PS-10A can be configured for the following power supply modes of operation:

- NAC Outputs as Power Supply Outputs
- NAC Outputs for Door Release
- NAC Outputs for 4-Wire Smoke Supply

NAC Outputs as Power Supply Outputs

This mode allows any NAC output to be configured as a power supply. The Sync inputs are ignored for the power supply outputs.

NAC Outputs for Door Release

This mode allows NAC circuits 4 and/or 5 to provide power for door holders.

NAC Outputs for 4-Wire Smoke Supply

This mode allows NAC circuits 4 and/or 5 to provide auxiliary power for 4-wire smoke detectors.

■ Specifications

Specifications	NFU-PS-10A
Dimensions	20"H x 14½"W x 4½"D
AC Line Voltage	120V 60 Hz / 240V 50 Hz, 2 Amps / 1 Amp (primary)
NAC Circuits	24 VDC regulated, Power Limited 10 A Total, 2.5 A maximum per circuit
Battery	24 VDC, Gel-Cell/Sealed Lead-Acid
Charging Capability	Up to 40 AH batteries
Current Consumption	From NFU-PS-10A Power Supply Standby: 200 mA Alarm: 350 mA
Common Indicators	Power On Common Trouble Battery Charger/Trouble CPU Fail
Trouble LEDs	Auxiliary Output Trouble Synchronized Output Trouble Ground Fault Trouble
Other LEDs	Synchronized Input Indicators (2 LEDs) Synchronized Output Indicators (2 LEDs) Trouble LED Indicator Alarm Relay Indicator
Controls	Acknowledge Button Configuration DIP Switches

All specifications are subject to change without any notice.
For more information, contact with NITTAN.

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