

# IPP-PSU-2A5 Auxiliary Power Supply (2.5 A)

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The IPP-PSU-2A5 Auxiliary Power Supply provides 2.5 A operating and standby power to the DS7000 Control Panel Line. It also works as a stand-alone power supply with outputs for detectors and sirens.

## System overview

The IPP-PSU-2A5 offers protection from battery discharge during AC power loss because it uses a relay to isolate the battery up to 10.2 V.

When used as an accessory, the IPP-PSU-2A5 helps control panels meet power requirements for NF A2P Type 2 and EN50131-1. A single system can support multiple power supplies. The number of power supplies in a single system depends on the required stand-by time.

The IPP-PSU-2A5 provides independent power outputs and individual protection circuits to deliver current to the detector lines. A separate power output, with its own protection, delivers current for sirens with internal rechargeable batteries.

Three trouble outputs can send supervision information, such as power supply trouble or low battery, to the control panel. In systems using the

- ▶ Compatible with the DS7000 Control Panel Line to meet regulatory requirements
- ▶ Works as a stand-alone power supply for detectors or sirens
- ▶ Three supervision outputs
- ▶ Four 750 mA power outputs for motion detectors with independent overload protection
- ▶ One 14.5 V siren power output with overload protection

DS7000 Control Panel Line and the DX2010 Input Expander, the trouble output signals are shown on LEDs, on keypads, and reported to the control panel. The DX2010 is mounted in the IPP-PSU-2A5 enclosure to accept trouble output signals.

## Functions

### Supervision Monitoring

The IPP-PSU-2A5 Power Supply monitors three independent outputs for the following failure conditions:

- AC mains failure
- Low battery (below 11.4 V) or battery failure
- Power supply output failure (loss of function)

After detecting a failure condition, the IPP-PSU-2A5 Power Supply sends a signal to the control panel.

## Certifications and approvals

IPP-PSU-2A5 Power Supply is designed to comply with the following approvals and certifications.

EN50131-1

## 2 | IPP-PSU-2A5 Auxiliary Power Supply (2.5 A)

IPP-PSU-2A5 Power Supply complies with the following certification.

NF A2P Type 2 Certification number: 122000076-02

### Installation/configuration notes

#### Installation Considerations

The following recommendations apply to systems that use the IPP-PSU-2A5 and require an expansion module.

- Use a DX2010 Input Expander Module in DS7240V2 Control Panel systems.

Control Panel	Power Supply	Expansion Module
DS7240V2	IPP-PSU-2A5	DX2010 Input Expander Module

#### Wiring Considerations

All DS7432 inputs connect to the LP+ voltage. All DS7432E inputs connect to the ground. Applications using the IPP-PSU-2A5 open collector supervision output must connect to a DS7432E input.

#### Compatible Products

**Control Panels** DS7240V2 and DS7220V2 Control Panels

**Modules** DX2010 Input Expander Module  
DS7432/E Eight-input Remote Module

### Parts included

Quantity	Component
1	ICP-AE1-W Enclosure (white)
1	Transformer
1	Mains Terminal Block
1	ICP-EZTS Tamper Switch
1	IPP-PSU-2A5 Power Supply

### Technical specifications

#### Enclosure

Dimensions:	356 mm x 318 mm x 76 mm (14 in. x 12.5 in. x 3 in.)
Material:	White 1.0 mm, cold-rolled steel

#### Number of...

Supervision Outputs:	Three: <ul style="list-style-type: none"><li>Battery Trouble (open collector)</li><li>AC Loss (open collector)</li><li>Power Supply Trouble (Form C relay)</li></ul>
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#### Power Requirements

##### Input Power

Input Voltage for Main Board:	18 VAC, 50 Hz
Input Voltage for Transformer:	230 VAC, 50 Hz

Current Draw:	300 mA maximum
<b>Output Power</b>	
Current:	2.5 A
Current Per Zone:	750 mA maximum
Total Current:	2.5 A
Battery	For NF A2P configurations, use YUASA NP17-12IFR battery. Single lead-acid battery rated for 17 AH (18 AH). While AC power is present, the power supply board charges the battery. When AC power is missing, the battery provides power to the rest of the system. The battery connection is current limited to 3.75 A.
Siren Power Output:	14.5 ±0.3 V for charging the siren's battery at 13.8 V Overload protection: 750 mA This power output is disabled in case of AC loss, to prevent the power supply battery from discharging into the siren battery.
Detector Power Outputs:	Nominal: 13.8 V (11.4 V to 15 V) According to NF C 48-211: 12-V -5%, +25%

#### Environmental Considerations

Operating and Storage Temperature:	-10°C to +55°C (+14°F to +131°F)
Relative Humidity:	5% to 85% at 30°C (86°F) non-condensing

### Ordering information

#### IPP-PSU-2A5 Auxiliary Power Supply (2.5 A)

2.5 A power supply for control panels. It allows the DS7000 Control Panel Line to meet demanding power requirements. Multiple power supplies can work in a single system.

Order number **IPP-PSU-2A5**

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