UPS-24S™

Uninterrupted Power Supply

• Provides 24 Hour Battery Backup

PROSeries™

Cut Sheet

Part Number: AL300ULS

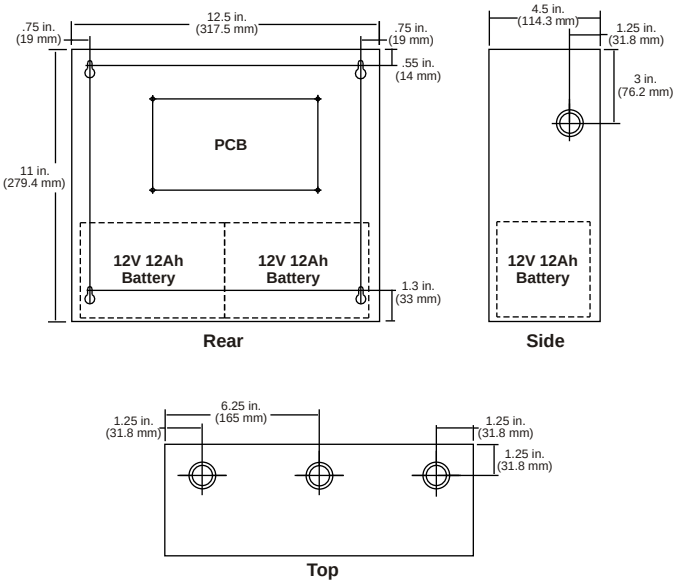
Features

- **AC and DC fault indication LEDs**
- **Interface to ProSeries Programmable Inputs**
- **Display Battery or Mains Fault condition on the detector LCD and Remote Displays**
- **Lifetime Warranty**
- **Locking cabinet**
- **Durable metal enclosure**

Description

The UPS-24S Power Supply with Battery Backup provides supervised 24 VDC power with 24 hour battery back-up for all ProSeries detectors. The UPS-24S consists of an enclosure containing a power supply and charging PCB. The UPS-24S holds a maximum of two 12V 12Ah batteries. The UPS-24S meets NFPA requirements for complete recharging of depleted batteries.

Details



General

Total current draw must be calculated to ensure sufficient battery backup. A current draw calculation worksheet is provided on the reverse side of this document. Use this worksheet to properly determine the battery requirements for the devices you wish to power on a single UPS-24S. If the total exceeds the UPS-24S maximum of 12Ah, a UPS-24L may be used. For details, refer to the UPS-24L cut sheet.

Long wire runs between detectors may require a larger gauge wire or additional power supplies. A general guideline for distance between detectors is 1,000 feet of 14 AWG or 100 feet of 24 AWG wire.

For installations with a 220VAC source, a transformer must be used to convert the incoming line voltage to 110VAC. Transformer Part #: FB0131P06

Specifications - UPS-24S Part #: AL300ULS

Cabinet Dimensions (WxHxD):	12.5” x 11” x 4.5”
Weight:	12 lbs. (without batteries)
Power Requirements:	90-115VAC, 50/60 Hz, 1.45A
DC Output:	2.5A max. @ 27.6VDC
Battery Capacity:	Two 12V 12Ah
Fault Indications:	AC Input and DC Output LEDs
Fault Contacts:	AC Fault: 1A at 28VDC Battery Fault: 1A at 28VDC
Battery Weight:	12Ah - 9 lbs. each

Power Supply Battery Requirement Calculation Worksheet

Calculating ProSeries Power Supply Requirements and Battery Backup for a single UPS-24 Power Supply

To determine how many units you can use on a UPS power supply simply perform the calculation below.

1. Total the current draws, using the list to the right, for all the equipment you would like to power and backup from a single power supply.

	Add Unit Current Draws
	Ah
+	Ah
+	Ah
UPS Power Consumption: +	1.3 Ah
24 Hour Consumption Total:	Ah

2. **Total:** Ah

If your total current draw is less than, or equal to 12Ah

Up to, but not exceeding 12Ah:
UPS-24S Power Supply P/N: AL300ULS
2 - 12Ah Batts. P/N: FB0130P01

If your total current draw is greater than12Ah but not exceeding 44Ah*

Above 12Ah must use the following:
UPS-24L P/N: AL300ULEX

>12 to 18Ah:	18Ah Batts. (2)	P/N: FB0130P02
>18 to 26Ah:	26Ah Batts. (2)	P/N: FB0130P03
>26 to 44Ah:	44Ah Batts. (2)	P/N: FB0130P04

*Maximum 24 hour current draw when using a UPS-24L with 44Ah batteries

Unit	24 hr. Current Draw*
Pro100 (0.295A)	7.1Ah
Pro200 (0.340A)	8.2Ah
Pro200+ (0.450A)	10.8Ah
Pro200D (0.416A)	10.0Ah
Pro200D+ (0.535A)	12.9Ah
Pro200DSC (0.550A)	13.2Ah
Pro200DSC+ (0.585A)	14.1Ah
ProX4 (0.830A)	19.9Ah
TCP/IP Module (.100A)	2.4Ah
Booster Blower (0.400A)	9.6Ah
Remote Display (0.085A)	2.0Ah
UPS Power Supply (0.053A)	1.3Ah

*Includes current draw for 5 minutes of alarm per NFPA

Calculation Example:

1 Pro200D	10Ah	10.0Ah
1 Pro200+	10.8Ah	10.8Ah
2 Pro100	(2x7.1Ah)	14.2Ah
2 ProRemotes	(2x2Ah)	4.0Ah
1 UPS-24L		1.3Ah

Total Equipment Current Draw (24hr.): 40.3Ah

UPS and Battery Requirements:
1 - UPS-24L
2 - 12V / 44Ah Batteries

Note: Please refer to all federal, state and local codes, and manufacturer's recommendations prior to design or installation. All systems must meet NFPA requirements.

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