

# VPS-100/300

## AIR SAMPLING POWER SUPPLIES



### Standard Features

- Input 120 VAC/60 Hz
- 1.5 amp continuous supply current at 27.6 VDC
- Filtered and electronically regulated output
- AC fail supervision (Form "C" contact)
- Low AC fail supervision (Form "C" contact)
- Battery supervision
- Built-in charger for sealed lead acid or gel-type batteries
- Automatic switch over to standby battery when AC fails
- AC Input LED indicator



P/N: See Chart

### Overview

The VSP-100/300 Air Sampling Power Supplies are capable of providing power with battery backup for the entire VESDA® air sampling product line. The VPS Power Supplies can power from a single detector to multiple units, depending on the configuration. They provides 24 volt power to the VES-DA system and has the added ability to convert (AC) power to charge batteries.

### Installation of the VPS Power Supply

The models VPS-100US and VPS-300US are power-limited power supplies. They convert 120 VAC/60 Hz input into 24 VDC power-limited outputs. These units are intended for use in application requiring UL listing for fire protection signaling.

The VPS-100US or VPS-300US should be installed in accordance with the national electrical code, NFPA 71 and in accordance with any local regulations. See wiring diagrams for proper hookup.

### Fault Reporting

A Power Supply Fault indicator is provided via a dry relay contact (Form C), which changes state due to the following conditions:

- AC Input loss
- Low AC input voltage
- Loss of battery voltage
- A short circuit of the battery leads
- A short circuit of any of the DC power outputs

### Power Supply Capabilities

#### VPS-100US

Provides power for: (1) VLP or VLS, up to (2) VLC-500, or up to (5) Remote Units.

Battery requirements: (2) 12 volt/12 Amp-hour batteries.

#### VPS-300US

Provides power for: up to (3) VLP or VLS, up to (6) VLC-500, or up to (15) Remote Units.

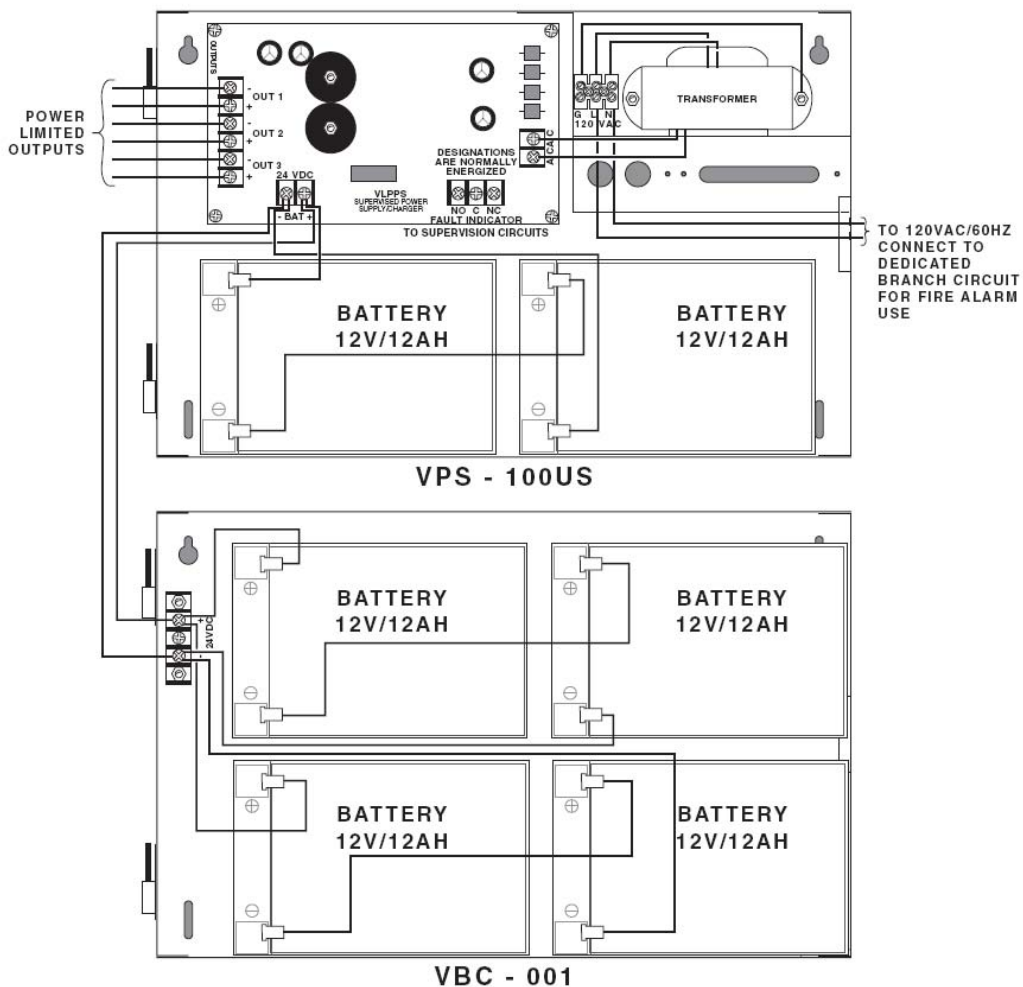
Battery requirements:

(2) VLP/VLS or (4) VLC-500 or (10) Remotes require (4) 12volt/12 Amp-hour batteries

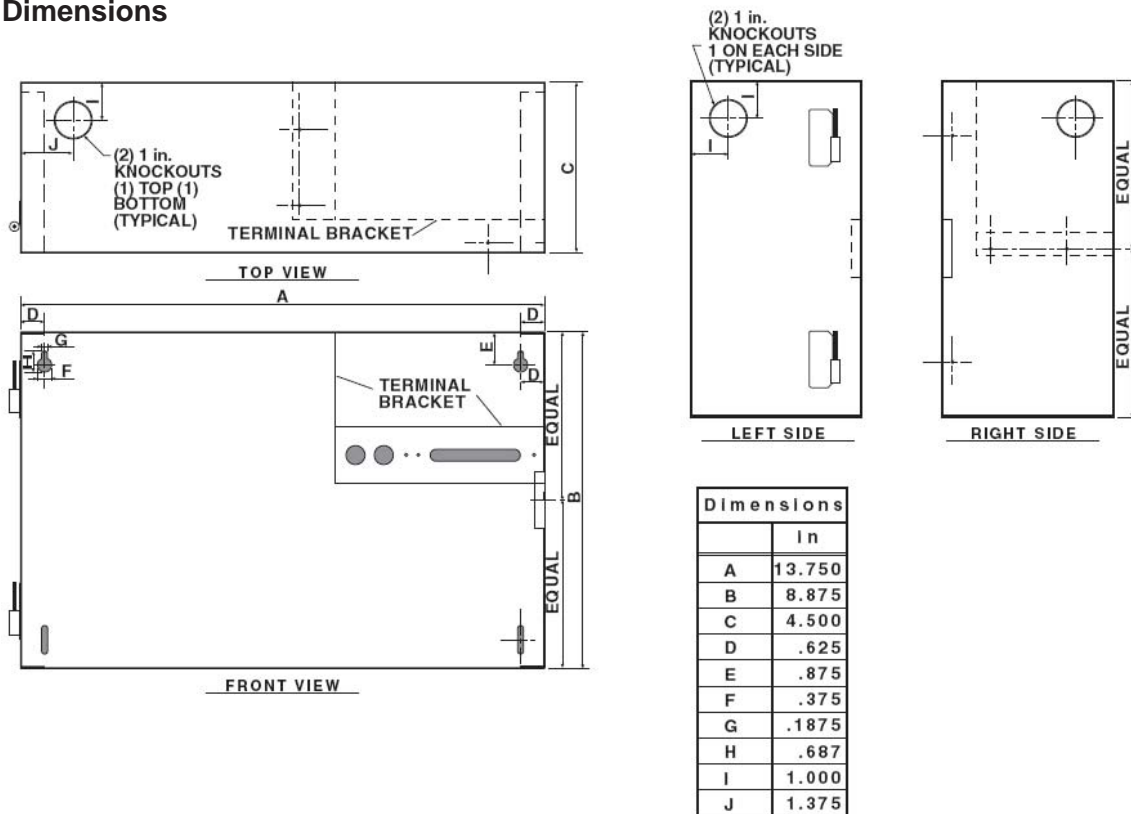
(3) VLP/VLS or (6) VLC-500 or (15) Remotes require (6) 12volt/12 Amp-hour batteries



## Wiring



## Dimensions





## Specifications

**Components:** VPS-100US consists of a mounting enclosure, transformer, and main circuit board. It uses two backup batteries (supplied separately).  
 VPS-300US consists of one VPS-100US Power Supply and one VBC-001 Battery Cabinet. Together it holds up to 6 batteries (supplied separately)  
 Note: The VPS Power Supply uses sealed lead acid, 12 VDC, 12 Amp/hour batteries.

**Input:** 120 VAC/60 Hz; 1.4 amp max.

**Output:** 27.6 VDC (normal)  
 Max. Total Available Output Current: 1.5 amps  
 Max. Output Current when only single circuit is used: 1.2 amps  
 Max. Output Current when all 3 outputs are used: 500 mA/circuit

**Dimensions (WHD):** 13.9 in x 9 in x 4.5 in (353 mm x 229 mm x 114 mm)

**Weight:** VPS-100US: 10 lb (4.5 kg) w/o batteries  
 VBC-001: 6 lb (2.7 kg) w/o batteries

**Operating Temperature:** Power Supply Ambient: 32°F to 120°F (0°C to 49°C)  
 Humidity: 10 - 95% RH, non-condensing

**Trouble Relay:** Common Trouble Rated 2 A @ 30 VDC  
 (Form C: NO/NC)  
 During normal operation, the power supply Fault Reporting Relay is energized.

**Cable Access:** 1 in (25 mm) knockouts in various positions

**Cable Termination:** Screw terminal blocks  
 30 - 12 AWG

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FIRE SYSTEMS®



## Ordering Information

Model	P/N	Description	Ship Wt. lb (kg)
VPS-100US	19077	Power Supply 120 VAC	10.0 (4.5)
VPS-300US	19093	Power Supply 120 VAC (w/ Battery Cabinet)	16.0 (7.3)

*Note: Approvals/Listings maintained by and manufactured by Xtralis AG.*

The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in the seller's sales contract or sales acknowledgment form. Every attempt is made to keep our product information up-to-date and accurate. All specific applications cannot be covered, nor can all requirements be anticipated. All specifications are subject to change without notice.



1102 Rupcich Drive  
Crown Point, IN 46307  
TEL: (219) 663-1600 FAX: (219) 663-4562  
e-mail: [info@janusfiresystems.com](mailto:info@janusfiresystems.com)  
[www.janusfiresystems.com](http://www.janusfiresystems.com)