



# 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<sup>®</sup> 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

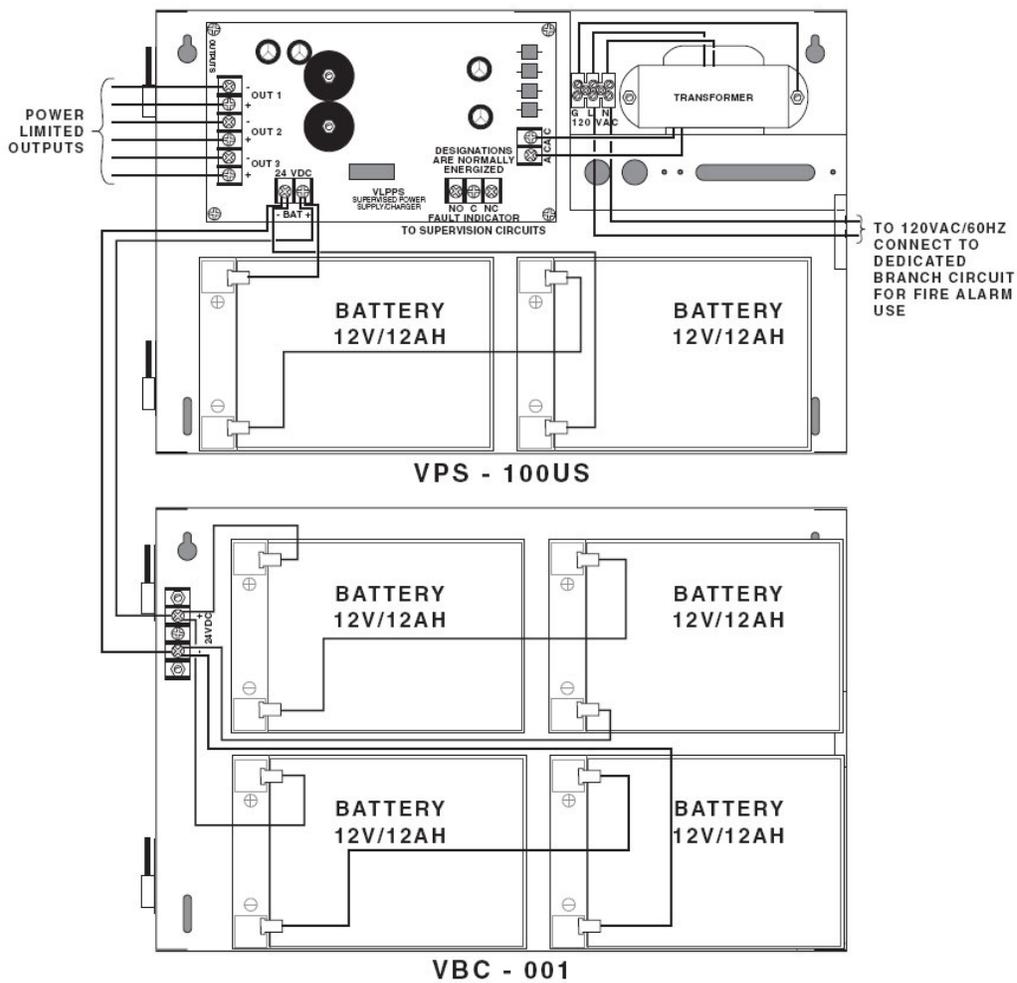
Provides power for: up to (3) VLP or VLS, up to (6) VLC-500, or up to (15) Remote Units.

Battery requirements:

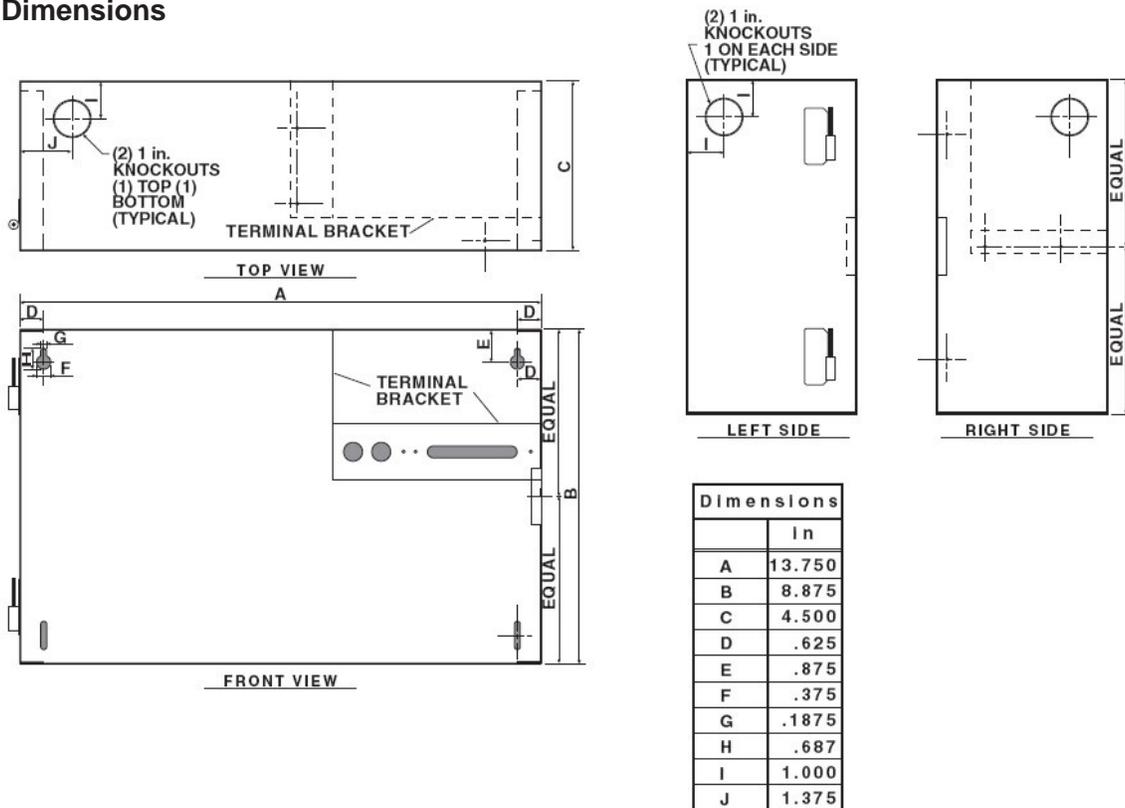
(2) VLP/VLS or (4) VLC-500 or (10) Remotes require (4) 12volt/12 Amp-hour batteries

(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



## Ordering Information

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



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