The VESDA power supply, model VPS-400US/48, is configured for telecommunication applications and requires a 48 VDC uninterruptable power source that serves as both the primary and back-up power source for the VESDA Aspirated Smoke Detection system.

The VESDA power supply, model VPS-400US/48, is a multiple zone switching power supply. The VPS-400US/48 is capable of providing power to one, two, three or four VESDA detectors. Alternatively, the VESDA LaserPLUS power supply, model VPS-400US/48, is capable of providing power for one to several VESDA remote accessories - displays, relay outputs, etc...

**Installation of the VESDA Power Supply, Model VPS-400US/48**

The VESDA power supply, model VPS-400US/48, converts 48 VDC to 24 VDC power via a low dissipative stabilizer that uses pulse width modulation to control the output voltage.

The VPS-400US/48 should be installed in accordance with the National Electrical Code, NFPA 72, and in accordance with any local regulations.

See wiring diagrams for proper hookup.

**Components**

The VESDA power supply, model VPS-400US/48, consists of four major components: the mounting enclosure, the switching power supply, the 3A slow - acting type output fuse and two screw terminal barrier strips (input and output).
**Power Supply Model VPS-400US/48**

### Specifications

**Input**
- Nominal Input Voltage: 48VDC
- Input Voltage Range: 40 to 56 VDC
- Input Fuse Rating: Internal Slow-acting, 4.0A - 250 volts
- Input Current: 1.6A DC typical, 1.7A DC maximum

**Output**
- Nominal Output Voltage: 24VDC
- Adjustable Output Voltage Range: 16.8 - 26.4 VDC
- Output Current: 2.5A DC @ 86°F (30°C)
- Switching component ripple, P-P: 50 mV typical, 100 mV maximum

**Dimensions**
- 13.8 in. x 8.9 in. x 4.9 in.
- (350 mm x 225 mm x 125 mm)

**Weight**
- 8 lbs. (3.6 kg.)

**Operating Temperature**
- Ambient: 32°F to 160°F (0°C to 71°C)

**Humidity**
- 10 - 95%RH, non-condensing

**EMI**
- Mil-Std-461, Method CEO3
- Mil-Std-461, Method REO3

**Cable Access**
- One inch (25 millimeters) knockouts in various positions

**Cable Termination**
- Screw terminal blocks, 30-12 AWG (0.2-2.5 mm)

**Ordering Information**
- VPS-400US/48

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Doc: 25493_00 Part: 30286