

# Multi-channel Power Supplies

[www.boschsecurity.com](http://www.boschsecurity.com)



**BOSCH**

Invented for life



- ▶ Multi-channel 24 or 28 VAC power output supplies
- ▶ Available in 4, 8 and 16 channel versions
- ▶ Wall-mountable steel enclosure
- ▶ Surge protection
- ▶ Power Off/On Switch

The Multi-channel Power Supplies are designed to support multiple 24/28 VAC, 50/60 Hz camera installations. These models operate from a 120 VAC, 50/60 Hz or from a 230 VAC, 50 Hz power source. Housed in a steel cabinet, with knockouts included for ease of installation and cable management, all power supplies include channel overload protection and unit surge protection.

Each output can be selected as 24 or 28 VAC. The 28 VAC option is ideal for applications with cameras at the end of long cable runs where significant voltage drops can occur. The ability to select the voltage of each output individually provides a greatly enhanced flexibility to meet the requirements of any installation. These power supplies are ideal for both fixed camera use and for PTZ camera applications.

## System overview

The **ALTV244UL** is a four-channel power supply for indoor camera applications. This power supply provides a total of 3.5 Amps (3.0 Amps at 28 VAC output), with each channel limited to a maximum output of 3.5 Amps. This model requires a 115 VAC, 50/60 Hz power source.

The **ALTV244220** is a four-channel power supply for indoor camera applications. This power supply provides a total of 3.5 Amps (3.0 Amps at 28 VAC output), with each channel limited to a maximum output of 3.5 Amps. This model requires a 230 VAC, 50 Hz power source.

The **ALTV248UL3** is an eight-channel power supply for indoor camera applications. This power supply provides a total of 3.5 Amps (3.0 Amps at 28 VAC output), with each channel limited to a maximum output of 3.5 Amps. This model requires a 115 VAC, 50/60 Hz power source.

The **ALTV2416ULX3** is a sixteen-channel power supply for indoor camera applications. This power supply provides a total of 7 Amps (6.0 Amps at 28 VAC output), with each channel limited to a maximum output of 3.5 Amps. This model requires a 115 VAC, 50/60 Hz power source.

The **WPTV244300UL** is a four-channel power supply for outdoor camera applications. The power supply includes three (3) Class 2 Rated PTC protected outputs, with each PTC output limited to a maximum output of 2.5 Amps. The three (3) PTC-protected outputs provide a total of 12.5 Amps (10.0 Amps at

28 VAC output). The power supply also includes one (1) fuse-protected output limited to 15 Amps. This model requires a 115 VAC, 50/60 Hz power source.

### Certifications and approvals

|                                     |   |
|-------------------------------------|---|
| Electromagnetic Compatibility (EMC) | Complies with FCC Part 15 and ICES-003 regulations                              |
| Product Safety                      | Complies with UL (UL 2044), CSA Standards (CSA Standard C22.2 No. 1-98), and CE |
| RoHS Compliance                     | All models  |
| Environmental                       | WPTV244300UL: NEMA 4X, IP65 rated   |

### Technical specifications

#### Models

|              |   |
|--------------|---|
| ALT244UL     | Four (4) camera outputs, indoor   |
| ALT244220    | Four (4) camera outputs, indoor   |
| ALT248UL3    | Eight (8) camera outputs, indoor  |
| ALT2416ULX3  | Sixteen (16) camera outputs, indoor   |
| WPTV244300UL | Three (3) PTC-protected outputs plus one (1) fuse-protected output, outdoor |

#### Recommended Use<sup>1</sup>

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>VG4 AutoDomes Modular Camera Series</li> </ul>  | 100, 200, 300, and 500i Series analog and IP applications |
| <ul style="list-style-type: none"> <li>AutoDome Easy IP Cameras</li> </ul>             | All analog and IP applications                            |
| <ul style="list-style-type: none"> <li>AutoDome Easy II Cameras</li> </ul>             | All applications  |
| <ul style="list-style-type: none"> <li>Dinion Series</li> </ul>                        | All analog and IP applications                            |
| <ul style="list-style-type: none"> <li>FlexiDome Series</li> </ul>                     | All analog and IP applications                            |
| <ul style="list-style-type: none"> <li>Unity Series Prepackaged Cameras</li> </ul>     | All analog and IP applications                            |
| <ul style="list-style-type: none"> <li>Extreme Environment Cameas</li> </ul>           | All analog and IP applications                            |
| <ul style="list-style-type: none"> <li>Extreme Environment Infrared Cameras</li> </ul> | All analog, IP and Bullet camera applications             |
| <ul style="list-style-type: none"> <li>High-Speed Positioning System</li> </ul>        | All applications  |

1. The current requirements of all cameras connected to a power supply must be within the maximum current capacity of the power supply.

### Electrical

#### Voltage Input

|                                  |                                |
|----------------------------------|--------------------------------|
| ALT244UL, ALT248UL3, ALT2416ULX3 | 115 VAC ± 10%, 50/60 Hz, 0.9 A |
| WPTV244300UL                     | 115 VAC ± 10%, 50/60 Hz, 2.7 A |
| ALT244220                        | 230 VAC ± 10%, 50 Hz, 1.8 A    |

#### Voltage Output

|   |                        |
|---|------------------------|
| ALT244UL, ALT244220, ALT248UL3, ALT2416ULX3, WPTV244300UL | 24/28 VAC, unregulated |
|---|------------------------|

#### Total Output Current

|                                | At 24 VAC | At 28 VAC | Max. Per Channel |
|--------------------------------|-----------|-----------|------------------|
| ALT244UL, ALT244220, ALT248UL3 | 3.5 A     | 3.0 A     | 3.5 A            |
| ALT2416ULX3                    | 7.0 A     | 6.0 A     | 3.5 A            |
| WPTV244300UL                   |           |           |                  |
| • PTC-protected                | 2.5 A     | 2.5 A     | 2.5 A            |
| • Fuse-protected               | 12.5 A    | 10 A      | 15 A             |

|                                 |  |                  |
|---------------------------------|--|------------------|
| Max. Current Output per Channel | 3.5 A  |                  |
| Fuse Ratings                    | 3.5 A  |                  |
| Main Fuse Ratings               | 5.0 A  |                  |
| <b>Maximum Power Draw</b>       | <b>At 24 VAC</b>                               | <b>At 28 VAC</b> |
| ALT244UL, ALT244220, ALT248UL3  | 84 W   | 72 W             |
| ALT2416ULX3                     | 168 W  | 144 W            |
| WPTV244300UL                    |  |                  |
| • PTC-protected                 | 60 W   | 70 W             |
| • Fuse-protected                | 300 W  | 280 W            |
| Controls and Indicators         | AC Power LED and On/Off switch, inside cabinet |                  |
| <b>Connections</b>              |  |                  |
| Main Input                      | Flying leads                                   |                  |
| Low-voltage Outputs             | Screw terminals                                |                  |

**Mechanical**

|                     |                        |
|---------------------|------------------------|
| Construction/Finish | Beige metal case       |
| Cable Entry         | Knockouts for conduits |

**Dimensions (H x W x D)**

|   |  |
|---|--|
| ALTV244UL,<br>ALTV244220,<br>ALTV248UL3 | 215.9 x 190.5 x 88.9 mm<br>(8.5 x 7.5 x 3.5 in.)   |
| ALTV2416ULX3                            | 330.2 x 342.9 x 88.9 mm<br>(13.0 x 13.5 x 3.5 in.) |
| WPTV244300UL                            | 305 x 197 x 114.3 mm<br>(12.0 x 7.75 x 4.5 in.)    |

**Shipping Weight**

|                          |                    |
|--------------------------|--------------------|
| ALTV244UL,<br>ALTV244220 | 3.18 kg (7.0 lbs)  |
| ALTV248UL3               | 3.3 kg (7.3 lbs)   |
| ALTV2416ULX3             | 6.3 kg (13.9 lbs)  |
| WPTV244300UL             | 7.94 kg (17.5 lbs) |

**Product Weight**

|                          |                     |
|--------------------------|---------------------|
| ALTV244UL,<br>ALTV244220 | 2.9 kg (6.4 lbs)    |
| ALTV248UL3               | 3.1 kg (6.8 lbs)    |
| ALTV2416ULX3             | 5.9 kg (12.9 lbs)   |
| WPTV244300UL             | 7.60 kg (16.75 lbs) |

**Environmental**

|                                 |                                 |
|---------------------------------|---------------------------------|
| Operating Temperature           |                                 |
| • All Indoor Models             | 0°C to +50°C (32 to +122°F)     |
| • WPTV244300UL                  | -20°C to +50°C (-4°F to +122°F) |
| Storage Temperature, all models | -40 to +65°C (-40 to +149°F)    |
| Humidity                        | 30% to 85% relative             |

**Ordering information****ALTV244UL 120 VAC Power Supply**

Four-channel, 120 VAC, 60 Hz, 84 VA out, wall mount, indoor

Order number **ALTV244UL**

**ALTV244220 230 VAC Power Supply**

Four-channel, 230 VAC, 50 Hz, 84 VA out, wall mount, indoor

Order number **ALTV244220**

**ALTV248UL3 8-channel Indoor Power Supply, 120 VAC**

Eight-channel, 120 VAC input, 24/28 VAC output, 3.5 A total output, indoor

Order number **ALTV248UL3**

**ALTV2416ULX3 16-channel Indoor Power Supply, 120 VAC**

Sixteen-channel, 120 VAC input, 24/28 VAC output, 7 A total output, indoor

Order number **ALTV2416ULX3**

**WPTV244300UL 4-channel Outdoor Power Supply, 120 VAC**

Four-channel, 120 VAC input, 24/28 VAC output, 12.5 A total output, outdoor

Order number **WPTV244300UL**

**WPTV244300220 4-channel Outdoor Power Supply, 220 VAC**

Four-channel, 220 VAC input, 24/28 VAC output, 12.5 A total output, outdoor

Order number **WPTV244300220**

### Represented by:

#### Americas:

Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
security.sales@us.bosch.com  
www.boschsecurity.us

#### Europe, Middle East, Africa:

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

#### Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security  
Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

#### China:

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

#### America Latina:

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com