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HPTV2401 • HPTV2801  
HPTV2401S • HPTV2401Z  
HPTV2801S • HPTV2801Z  
PRODUCT INSTALLATION DOCUMENT  
PN 52630:A 08/11/2005 ECN 05-352

## HPTV2401 and HPTV2801 Series: AC Power Supplies with Optional Surge Protection

### 1 Overview

The HPTV2401 and HPTV2801 series are power supplies which provide power and surge protection, depending on model, for applications such as access control, security, and video applications. These units consist of thermally fused transformers and an electrically fused primary input. These units accept 115 VAC input and provide a single output of 24 VAC or 28 VAC.

- The **HPTV2401** and **HPTV2801** are single output CCTV power supplies. These units include no surge protection.
- The **HPTV2401S** and **HPTV2801S** include an HCPS1 Surge Module which provides power and video surge protection.
- The **HPTV2401Z** and **HPTV2801Z** include an HDSP1 Surge Module which provides power, video, and data surge protection.

The 28 VAC models are used for long cable runs from power supply to camera where voltage sag may be encountered. Verify that voltage at camera input is within the camera specification. Although labeled for 24 VAC, the surge suppression unit voltage range accommodates 28 VAC. Refer to the enclosed Installation Guide for camera surge protection specifications, if applicable.

### 2 Specifications

- Input: 115V, 60 Hz, 2A
- Output:
  - HPTV2401, HPTV2401S, HPTV2401Z: 8A @ 24 VAC (200 VA)
  - HPTV2801, HPTV2801S, HPTV2801Z: 6.25A @ 28 VAC (175 VA)
- Equipped with surge protection, depending on model (for surge protector specifications, refer to the enclosed Installation Guide)
- Transformer with built-in thermal protection
- Terminal block fuse: 250V, 3A, 5 x 20mm cartridge
- AC line cord included
- Vented enclosure with hinged door and five convenient knockouts, designed for quick installation
- HPTV2401, HPTV2801: tie-wrap with mounting nut for strain relief of low voltage secondary wire included in kit
- Maximum temperature range: 32° F to 120° F (0° C to 49° C); indoor use only
- Cabinet dimensions: 11.5" W x 4.875" D x 10" H (29.21cm W x 12.38cm D x 25.4cm H)

### 3 Installation Instructions

1. Unpack product. Do not discard packing materials until installation and checkout are successfully completed.
2. Pre-drill holes where enclosure is to be mounted. Choose a vertical surface, strong enough to support the full weight of the assembly, located in an area without excessive moisture. This unit is for indoor installation only.
3. Secure enclosure to the desired location, using appropriately sized fasteners that can support the full weight of the assembly.
4. Disconnect power to the branch circuit where the product will be connected.

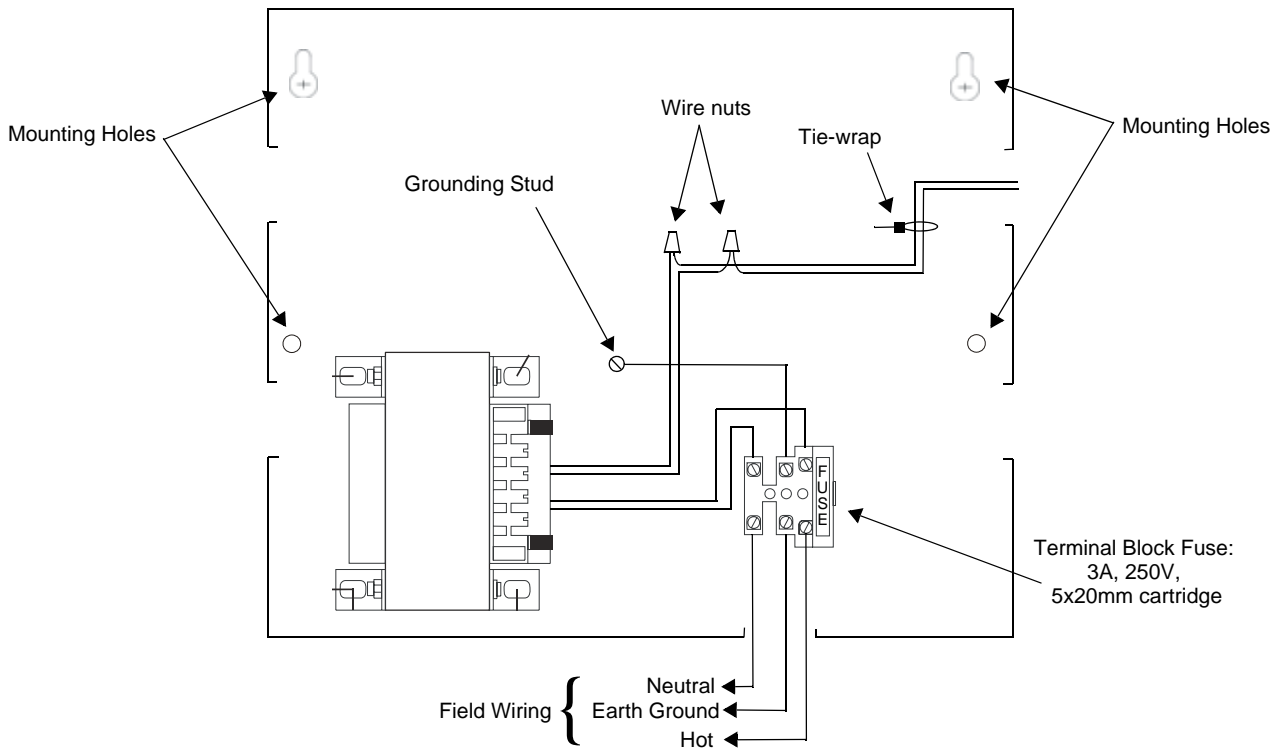
5. Use the knockout in bottom of cabinet for 115 VAC wiring. Route the 115 VAC wiring at least 1/4" (0.635 cm) from 24 VAC (low voltage) wiring.
6. Connect incoming AC power (115V, 60 Hz).
  - Hot (black) to terminal marked "L".
  - Neutral (white) to terminal marked "N".
  - Ground to terminal marked "G".
7. HPTV2401/HPTV2801 only: connect camera power wires to low voltage AC out (white wires) with appropriate wire nuts or connectors.
8. HPTV2401S/HPTV2401Z/HPTV2801S/HPTV2801Z only: install and wire the surge protector according to the enclosed Surge Protector Installation Guide. Verify power output is appropriate for loads to be connected. While wiring the power supply, leave a 1/4" (0.635 cm) space in between power-limited (output circuits) and non-power-limited (115 VAC and 24 VAC) wiring.
9. Secure cabinet door with supplied screws to prevent unauthorized access.
10. Connect power to the branch circuit.

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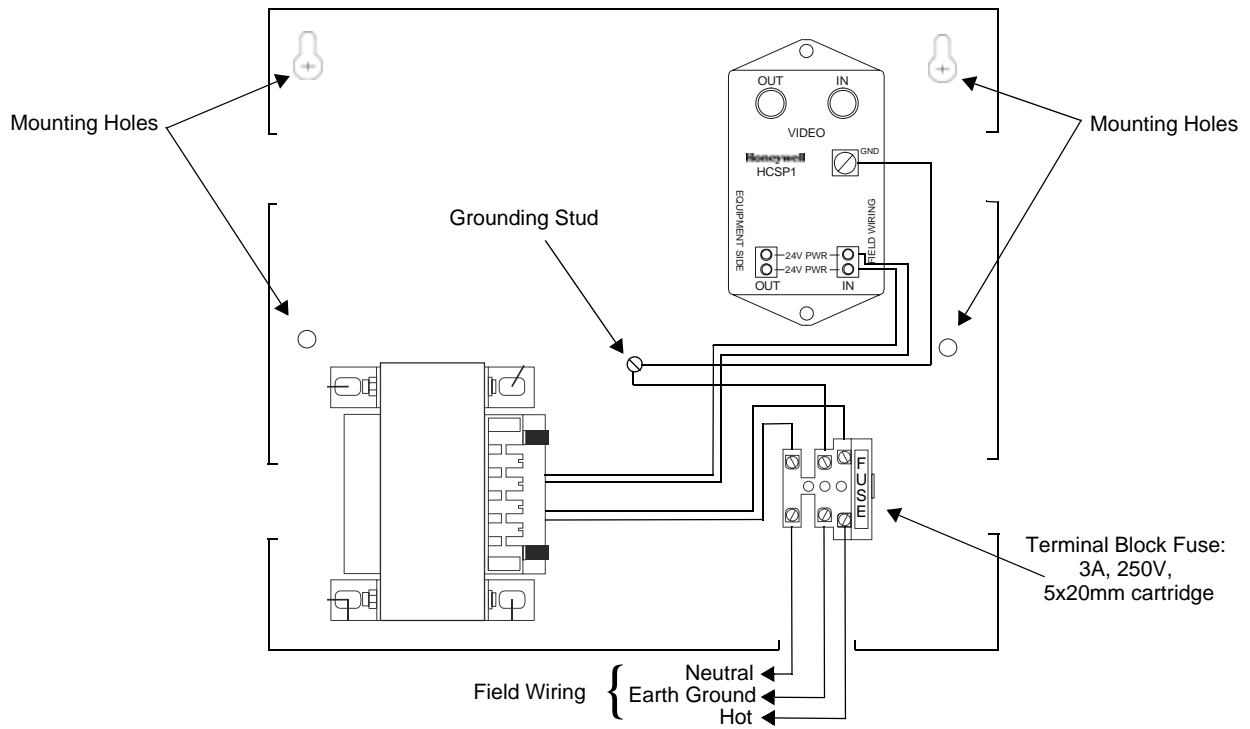
**WARNING: Risk of electrical shock and/or equipment damage!**

To reduce risk of electric shock, do not expose unit to rain or excessive moisture, and disconnect power before servicing unit.

- For continuous protection against hazard, replace fuses only with exact type and rating.
  - A readily accessible switched circuit breaker must be available to disconnect main power as required.
  - All 120V wiring should be routed so that it cannot touch low voltage wiring. The minimum spacing between these wires is 3/8" (0.953).
  - This unit contains no user-serviceable parts. Installation and servicing should only be made by qualified personnel.
  - Install in accordance with all local regulations and the National Electrical Code.
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**Figure 1 HPTV2401 • HPTV2801**



**Figure 2 HPTV2401S • HPTV2801S**

