

1 Overview

The HPV2416UL, HPV2416ULCB, HPV2416-1UL, and HPV2416-1ULCB are CCTV power supplies and distribution units. The HPV2416UL and HPV2416ULCB provide a constant source of 24 VAC with 8 A supply current. The HPV2416-1UL and HPV2416-1ULCB provide a constant source of 24 VAC with 16 A supply current. Sixteen individual outputs route power to operate CCTV Cameras and other video accessories. For overload protection the HPV2416UL and HPV2416-1UL use automotive style fuses and the HPV2416ULCB and HPV2416-1ULCB have auto-reset table PTCs.

2 Features

- Power ON/OFF switch.
- Fused or PTC protected Outputs
- Surge and transient protection
- Diagnostic LED's for quick troubleshooting
- Unit maintains camera synchronization.
- Transformer has built-in thermal protection.
- Vented enclosure with hinged door and five convenient knockouts.
- Designed for quick installation.
- AC line cord and Terminal Block Fuse Protection included

3 Specifications

- UL-Listed to UL-2044 Commercial CCTV Equipment
 - Input:
 - HPV2416UL and HPV2416ULCB: 115V, 60Hz, 2A.
 - HPV2416-1UL and HPV2416-1ULCB: 115V, 60Hz, 4A.
 - Output:
 - HPV2416UL and HPV2416ULCB: 8A at 24 VAC (200VA).
 - HPV2416-1UL and HPV2416-1ULCB: 16A at 24 VAC (400VA).
 - Sixteen outputs.
 - Maximum Current Rating.
 - LED Indicator Lights:
 - Input Power LED (2 green) – ON indicates that 24VAC is present at distribution Boards.
 - Output Power LEDs (16 green) – ON indicates that 24VAC is present at the related output circuit.
 - Terminal Block Fuse: 5x20MM Cartridge
 - Main Secondary Fuse: 32 V, Automotive Style
 - Individual Output Circuits have automotive style fuse or resettable PTCs
- NOTE: To reset a PTC that has experienced an overload or short circuit, disconnect power for 5 minutes to allow the PTC to reset itself.*
- Maximum temperature range: 32°F to 120°F (0°F to 49°C); indoor use only.
 - Cabinet dimensions: 11.5 " W x 4.875 " D x 10 " H (29.21 cm W x 12.38 cm D x 25.4 cm H).

4 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 to which the product will be connected.
5. On each Distribution Board, Slide SW1 switch to OFF position
6. Connect incoming AC power (115 V, 60 Hz): Hot (black) to terminal marked “L”; Neutral (White) to terminal marked “N”; Ground to terminal marked “G”.
7. Use the knockout in bottom of cabinet for 115 VAC. Route the 115 VAC wiring at least 3/8" (0.953 cm) from 24 VAC (low voltage) wiring.
8. Keep a 1" (0.635 cm) separation between power limited wiring (output circuits on HPV2416ULCB and HPV2416-1ULCB) and non-power limited wiring. Use separate knockouts for power limited wiring.
9. Connect CCTV cameras (or other external loads) to appropriate terminals. Connect circuit #1 to terminals marked “1+” and “-”. Connect circuit #2 to terminal is marked “2+” and “-”. Continue to connect the remaining circuits’ carefully observing polarity. Terminals marked with “-” are of the same polarity.
10. Power the branch circuit and slide SW1 on each Distribution Board to the ON position. All eighteen green LEDs should illuminate.
11. To avoid potential damage, verify output voltages and output load current.
12. Upon completion of wiring, secure cabinet door with screws supplied, to prevent access by unauthorized personnel.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. RISK OF ELECTRICAL SHOCK AND/OR EQUIPMENT DAMAGE, DISCONNECT POWER BEFORE SERVICING THIS APPLIANCE.

- 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" (0.953CM).
- 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 ELECTRIC CODE.

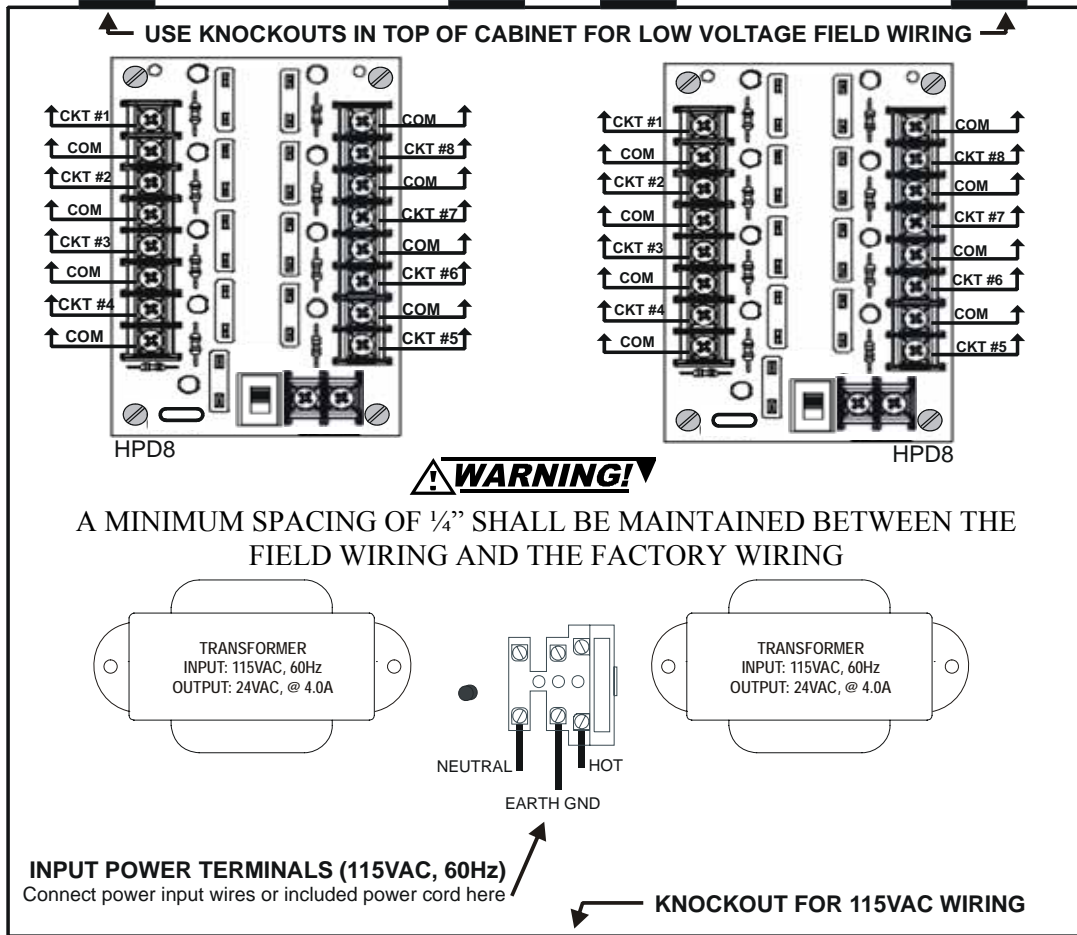
Table 1: Power Supply Output Ratings

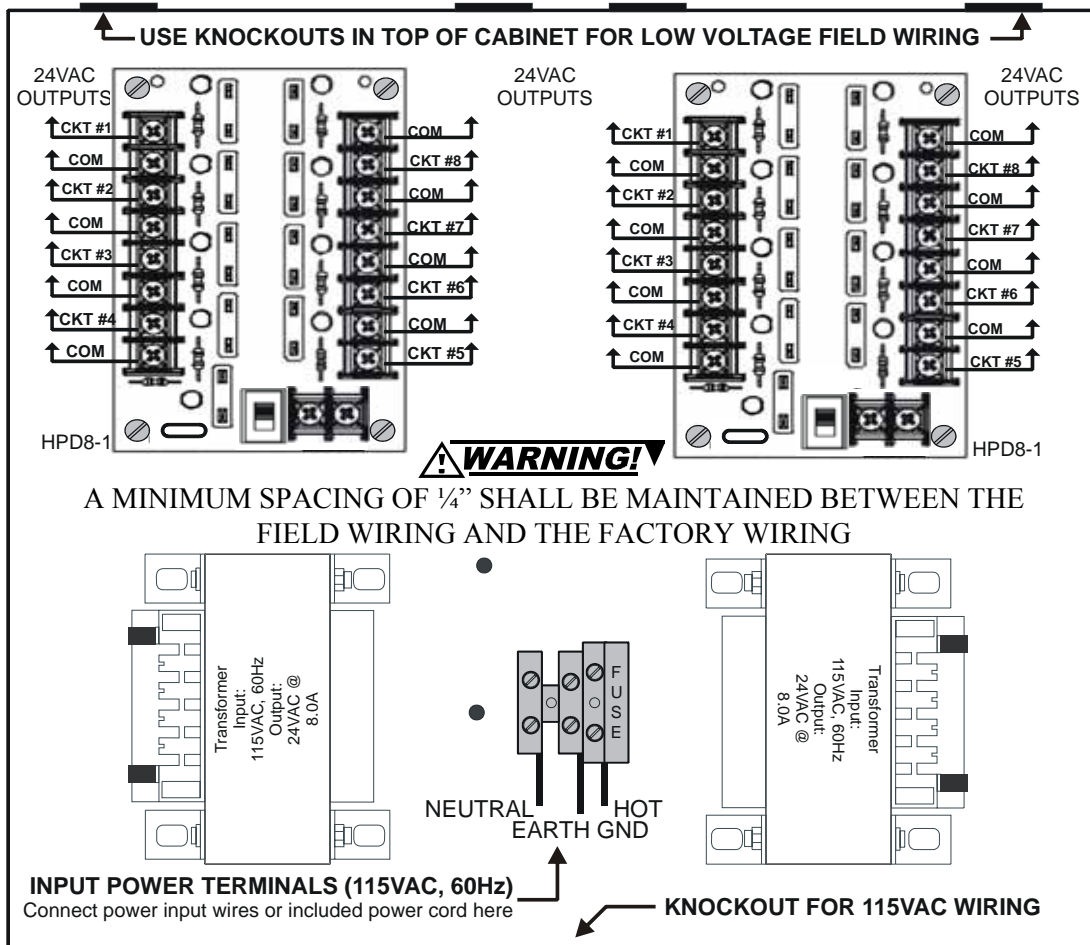
	Any Output	Total Module	Total Supply
HPV2416UL	3A	4A	8A
HPV2416ULCB	2A	4A	8A
HPV2416-1UL	5A	8A	16A
HPV2416-1ULCB	2A	8A	16A

Table 2: Fuse and Circuit Breaker Ratings

	Terminal Block Fuse	Secondary Fuse	Individual Outputs
HPV2416UL	3A (250V)	5A	3A Fuse
HPV2416ULCB	3A (250V)	N/A	PTC*
HPV2416-1UL	6A (125V)	10A	5A Fuse
HPV2416-1ULCB	6A (125V)	N/A	PTC*

* PTC hold current rating: 2.0 A at 50°C





For additional information:

- Visit our website at <http://www.honeywellpower.com>
- Contact Technical Support at (877) HPP-POWR
- E-mail us at hpp_techserv@honeywell.com