

## 1 Overview

These switching power supplies/distribution units convert 115 VAC input into 12 VDC or 24 VDC @ 4 A of supply current and distribute it using either individually fused outputs or PTCs. These general purpose power supplies have a wide range of applications for access control, security and video systems that require additional power. For convenient installation, they come completely assembled with a steel enclosure, transformer, and connecting hardware.

## 2 Specifications

- Switch selectable 12/24VDC @ 4A.
- Input 1.0A @ 115VAC, 60Hz max.
- Filtered and electronically regulated output.
- Thermally protected design.
- Up to 1.0A of battery charging current.
- LED diagnostic indicators for AC input (green), main DC output (red), and individual DC outputs (green).
- Distribution boards include standard automotive fuses or PTCs along with a power disconnect switch per distribution board (not included on HPS5PMTX).
- Hinged cover and vented enclosure with nine convenient knockouts.
- Temperature range: 32°F to 120°F (0°C to 49°C); for indoor use only.
- Enclosure dimensions: 15”H x 14.5”W x 2.5”D.
- AC fail and low battery supervision (Form “C” relay contacts rated @ 5A, 30 VDC/120VAC).

## 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. Select a mounting location in an area without excessive amounts of moisture (indoor installation only).
3. Secure enclosure to desired location using appropriately sized fasteners that can support the full weight of the assembly.
4. Configure power supply using dip switch to select output voltage desired (refer to Voltage Selection Guide).
5. Ensure that the ON/OFF switch on the HPD module is in the OFF position (as applicable).
6. Disconnect power to the branch circuit. Route wires to enclosure as needed ensuring that all power limited wiring is at least 1/4” from any non-power limited wiring.
7. Connect 115 VAC input with UL approved power input wires.
8. Connect external loads to appropriate DC output terminals observing polarity. (Note: Individual output circuits are rated for 2.5 A @ 20°C on the PD8CB and PD16CB, AND 3.0 A on the PD8 and PD16, provided the total current from all output combined is limited to 4.0 A.)
9. Connect optional backup batteries to HPS5PM observing polarity. (Recommended charging voltage is 13.8 VDC for one (1) 12V battery and 27.6 VDC for two (2) 12V batteries in series).
10. Connect AC fail and battery supervision form “C” contacts as desired to monitor unit.
11. Energize branch circuit and turn HPD board ON/OFF switch to ON. All LEDs on the power supply and distribution unit should illuminate.
12. To avoid potential damage, measure output to verify output limits are not exceeded.

13. Secure the cabinet door with the lock provided.

## 4 LED Diagnostics

HPS5PM AC Power (Green LED)	HPS5PM DC Power (Red LED)	HPD8, HPD8CB Output Power (Green LEDs)	Status
ON	ON	ON (all)	Normal Operation
OFF	OFF	OFF (all)	Loss of AC. Stand-by battery (if present & charged) supplying power. AC fail relay engaged.
ON	OFF	OFF (all)	No DC output. Overload present.
ON	ON	1 or more OFF	Blown fuse, open PTC. Discharged or no battery present.

## 5 Fuse Replacement Information

Fuse	Rating
AC Terminal Block	3A, 250VAC 5mmx20mm cartridge.
HPD8 Main Fuse	5A, 32V standard automotive (tan).
HPD8 Outputs (F1 to F8)	3A, 32V standard automotive (violet).
CB Model's PTC	2.5A @ 20°C

## 6 Voltage Selection Stage

Output	SW2
12VDC, 4.0A	OFF
24VDC, 4.0A	ON



**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 with only exact type and rating.
- Maintain 1/4" of separation between the AC mains (115VAC) and all low voltage wiring.
- A readily accessible switched circuit breaker must be available to disconnect main power as required.
- 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.

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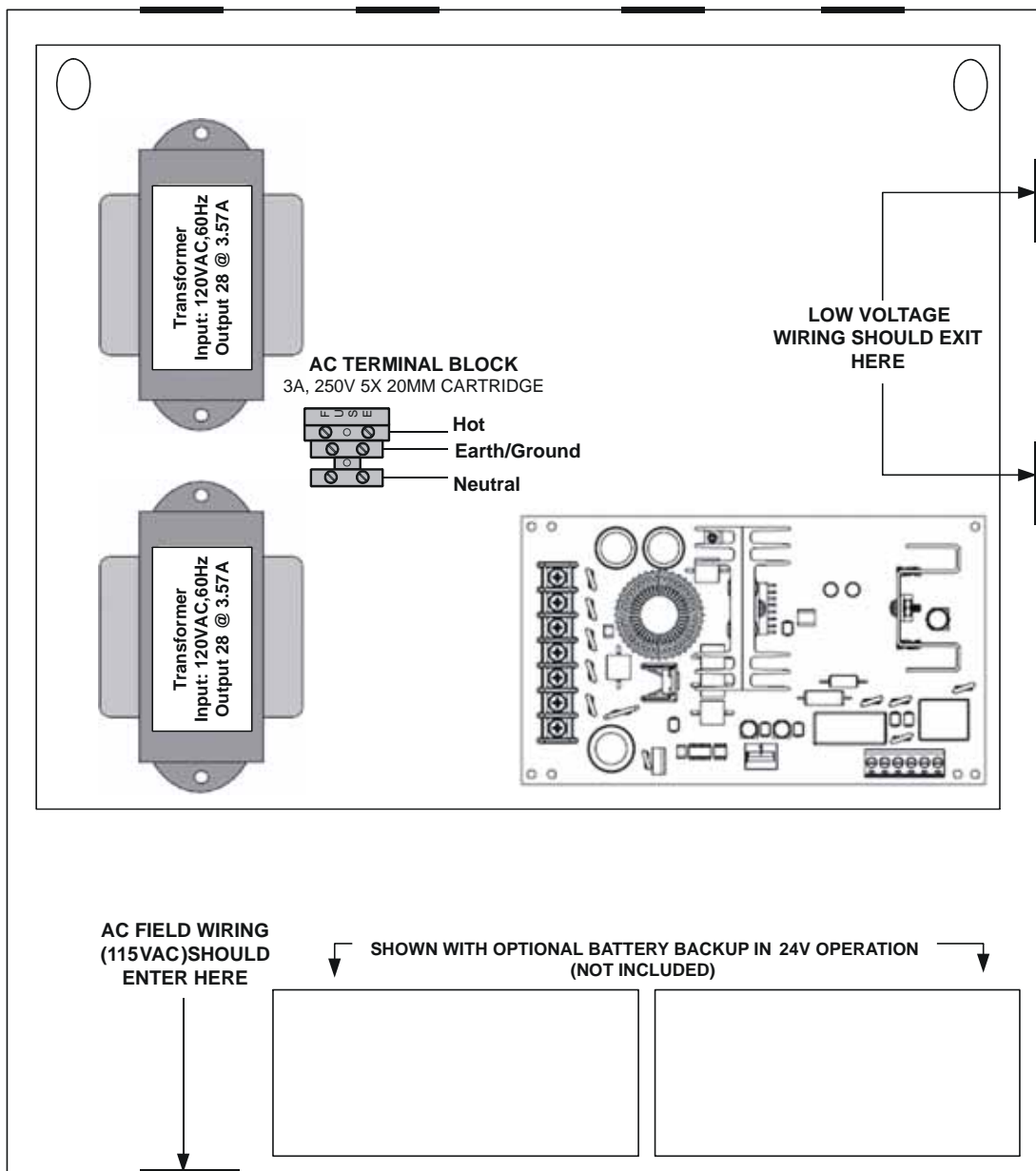
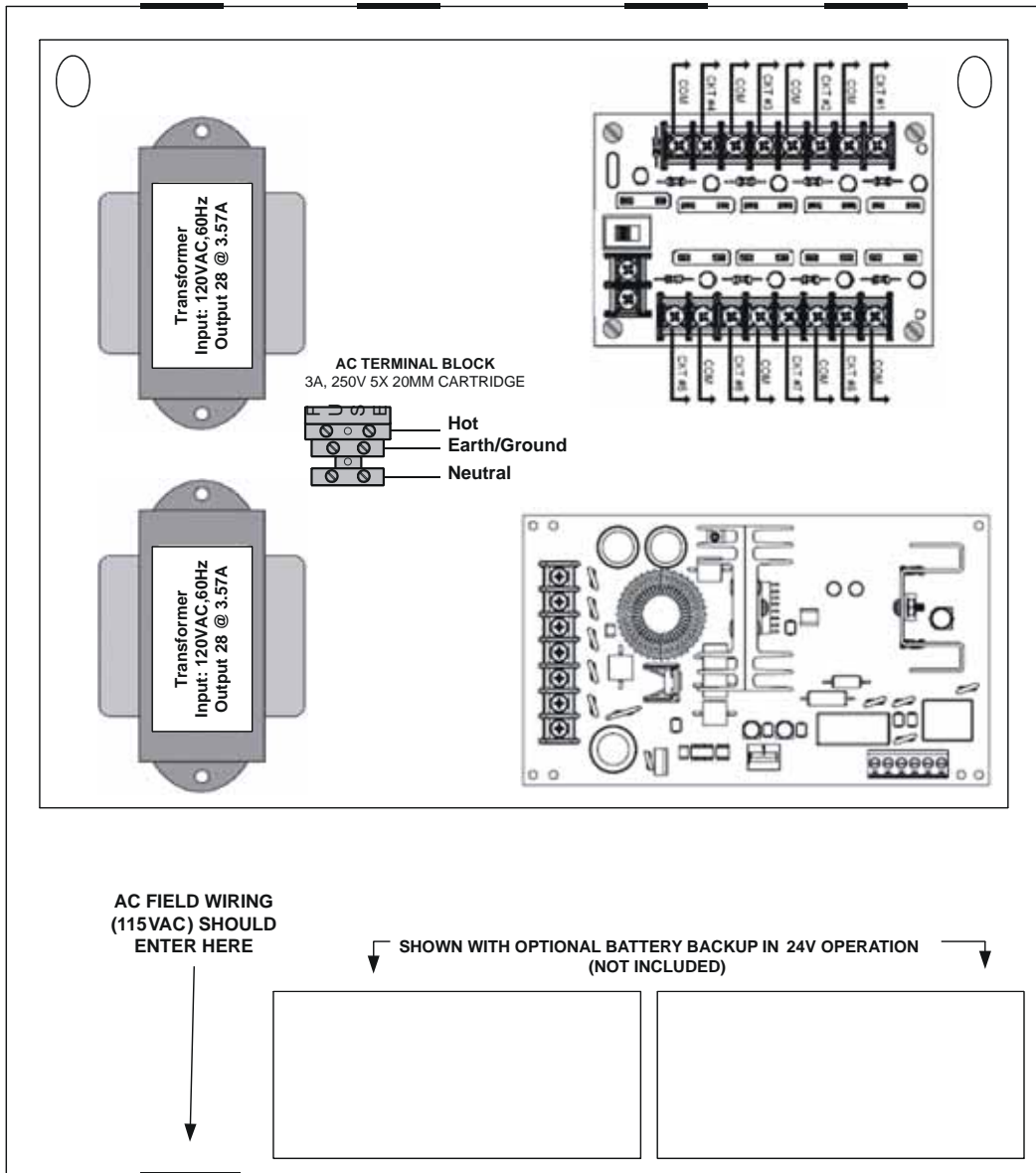


Figure 1 HPS5PMTX

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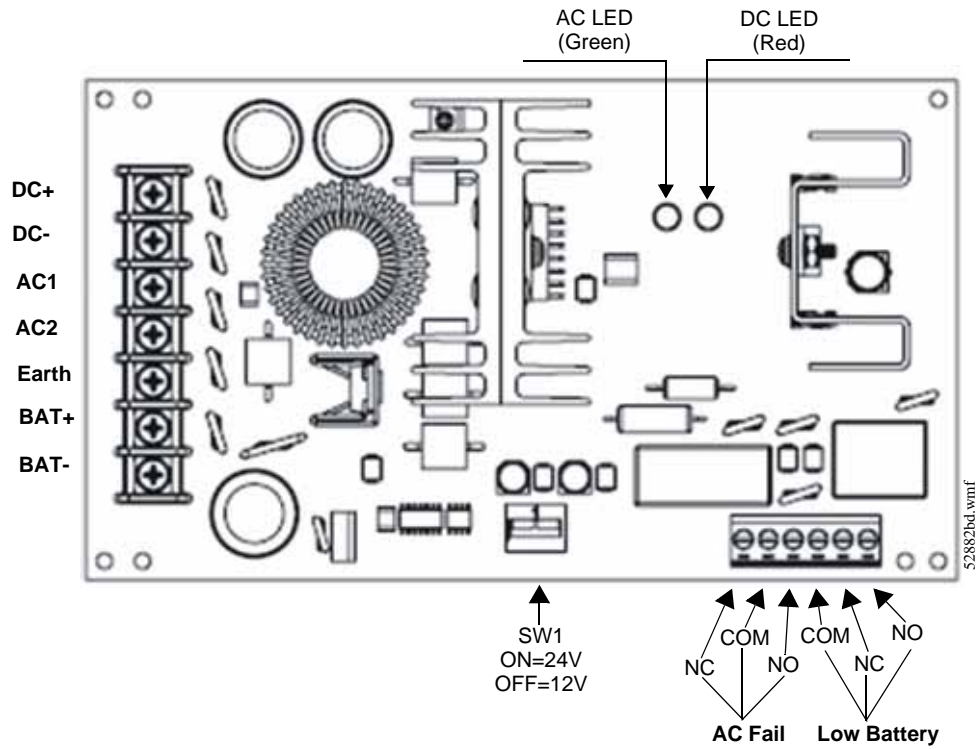


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Figure 2 HPS5PMPD8

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**Figure 4 HPS5PM**

For additional information:

- Visit our website at <http://www.honeywellpower.com>
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