

This product falls under the UL1481 Fire Alarm Systems, UL603 Burglary Alarm Systems and UL294 Access Control System Standards. The HP300ULPD4CB and HP300ULPD8CB units are to be installed in a fail safe mode unless authorized by the local AHJ. This product must be installed in compliance with Article 760 of the National Electrical Code, NFPA70, as well as NAPA72 National Fire Alarm Code, and all applicable local codes.

1 Description

The HP300ULPD4CB has a 12VDC and the HP300ULPD8CB has a 24VDC power supply with AC fail and Battery fail supervision, and a power distribution board that provides 4/8 power-limited PTC protected outputs. Each output has LED indication of PTC activation for diagnostic purposes. The units have not been evaluated as elevator equipment, and are not authorized for bell output in Mercantile applications.

2 Specifications

A) Power Supply Board

1. Input voltage: 120VAC 60Hz; Current: 1.40A max.
2. Output Voltage: 12VDC or 24VDC, jumper selectable; Current: 2.5A continuous output maximum, 2.0A plus battery charger (DC output not supervised).
3. Fail safe dry contact output on AC Failure (within one minute).
4. Built-in charger for sealed lead acid or gel cell type batteries.
5. Instantaneous transfer to stand-by battery on AC failure.
6. Battery presence detection (within 1 minute).
7. Battery low disconnect at 9.90VDC or 19.90VDC.
8. High voltage disconnect at 15VDC or 30VDC.
9. Yellow LED (L3) indication for battery disconnected and battery low.
10. Fail safe dry contact output for Battery trouble (Fail Safe).
11. Battery polarity reversal protection.
12. Thermal overload and short circuit protection.
13. DC output PTC activated indication by Red LED (L2).
14. DC output failure indication by Red LED (L4).
15. AC presence indication by Green LED (L1).
16. DC output indication by Red LED (L5).
17. Battery Leads included.
18. Power Board Dimensions: 5"L x 3.9"W x 1.5"H.
19. Enclosure Dimension: 17.5"H x 13"W x 4.5"D. Accommodates two 12 Volt 12AH batteries. When using larger batteries, a UL approved enclosure must be used.

B) Distribution Board

1. Power input may be either 12VDC or 24VDC.
2. 4/8 individually PTC Protected outputs rated 1.6A @ 23C with a maximum of 1.0A @ 49C (not supervised).
3. Total current should not exceed the power supply rating used in the application.
4. Green LED for input power indication.

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5. Red LED illuminates to indicate PTC activation.
6. Board Dimensions: 4.16 “L x 2.6”W x 0.8”H.

3 Installation Instructions

1. Mounting

The power supply should be installed in accordance with all Governing National Electrical and Local Codes. Mount the power supply securely in the desired location using the four (4) mounting holes.

2. Power Supply Input Connection

Before connecting power review the entire wiring diagram for correct installation (see Fig. 1). With the AC power disconnected, connect 120VAC to the Fuse Block as follows; L=Black (HOT), N=WHITE (Neutral), G=GREEN (Ground). Select the output voltage 12VDC or 24VDC using Jumper J1 of the Power Board J1 OFF=12VDC, J1 ON=24VDC. Voltage is Factory set and Re-Adjusting will void **Warranty**.

3. Output Connections

Connect the 4/8 outputs to the desired devices observing polarity. As shown in Fig 1, (P) is for positive (+), and (N) for negative (-).

4. Alarm/Trouble Output

- a) AC Fail: Connect the “AC Fail” output “Form C” dry contacts to the monitoring device. In case of AC loss the relay, which is Fail Safe, will de-energize within one (1) minute.
- b) Battery Fail: Connect the Battery Fail output “Form C” dry contacts to the monitoring device. If a Battery is not connected or improperly connected, the Yellow LED (L3) will turn ON within one (1) minute and the Battery Fail output relay, which is Fail Safe, will de-energize.

5. Power Up

When all wiring is complete and checked, switch ON the AC Power. The Green Led (L1) will come ON indicating AC presence and the AC relay will be energized. Switch ON the distribution board power switch to power the devices connected. Green LED should be illuminated to indicate power is present. Connect Battery observing the correct polarity. For 24VDC use the battery link provided to connect the two (2) 12 Volt Batteries in series. Secure the enclosure with the 4 screws or with the Key Lock provided.

NOTE: For UL603 or UL294 applications use a Tamper Switch (Catalog number HPVM3 available separately), and included enclosure key lock. Connect the tamper switch NC outputs to monitoring device to notify of enclosure tampering.

4 LED Indicators (HP2500m/SX2500M Power Board)

LED Number	Power Board (status when lit)
L1	Green LED - AC present
L2	Red LED - PTC activated
L3	Yellow LED - Battery low or disconnected
L4	Red LED - Dc power failure
L5	Red LED - DC output present

5 LED Indicators (PD4CB Board)

LED Number	Distribution Board (status when lit)
L0	Green LED - Power ON
L1 - L4	Red LED - PTC activated

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6 Battery Stand-By Mode Specification Chart

Output Battery Capacity	STBY/ALRM	4Hr Stand-By 15Mins/ALRM	24Hr Stand-By 15Mins/ALRM	60Hr Stand-By 5Mins/ALRM
12Ah-12V	STBY	2.00A	N/A	N/A
	ALRM	2.00A	N/A	N/A
17Ah-12V	STBY	2.00A	200mA	N/A
	ALRM	2.00A	2.00A	N/A
55Ah-12V	STBY	2.00A	1.50A	300mA
	ALRM	2.00A	2.00A	2.00A
12Ah-24V	STBY	2.00A	N/A	N/A
	ALRM	2.00A	N/A	N/A
17Ah-24V	STBY	2.00A	200mA	N/A
	ALRM	2.00A	2.00A	N/A
55Ah-24V	STBY	2.00A	1.50A	300mA
	ALRM	2.00A	2.00A	2.00A
UL Listing		UL294 UL603	UL294 UL603 UL1481	UL1481



WARNING: To reduce risk of electric shock, do not expose unit to rain or excess 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 24V wiring; minimum spacing 3/8" (0.953cm). Installation and servicing should only be made by qualified personnel; contains no user-serviceable parts. Install in accordance with all local regulations and the National Electrical Code.

7 Maintenance

This unit should be tested at least once a year to verify correct operation in accordance with the following recommendations;

Output Voltage Test - Voltage output should be tested under normal load conditions to verify correct levels.

Battery Test - Battery should be checked for full charge under normal load conditions. This check should verify correct voltage at both battery terminals and also at the Battery output point on the board to ensure the integrity of all connecting wiring. It is recommended to replace the battery at least every 4 years.

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HONEYWELL HP300ULPD4CB (shown)

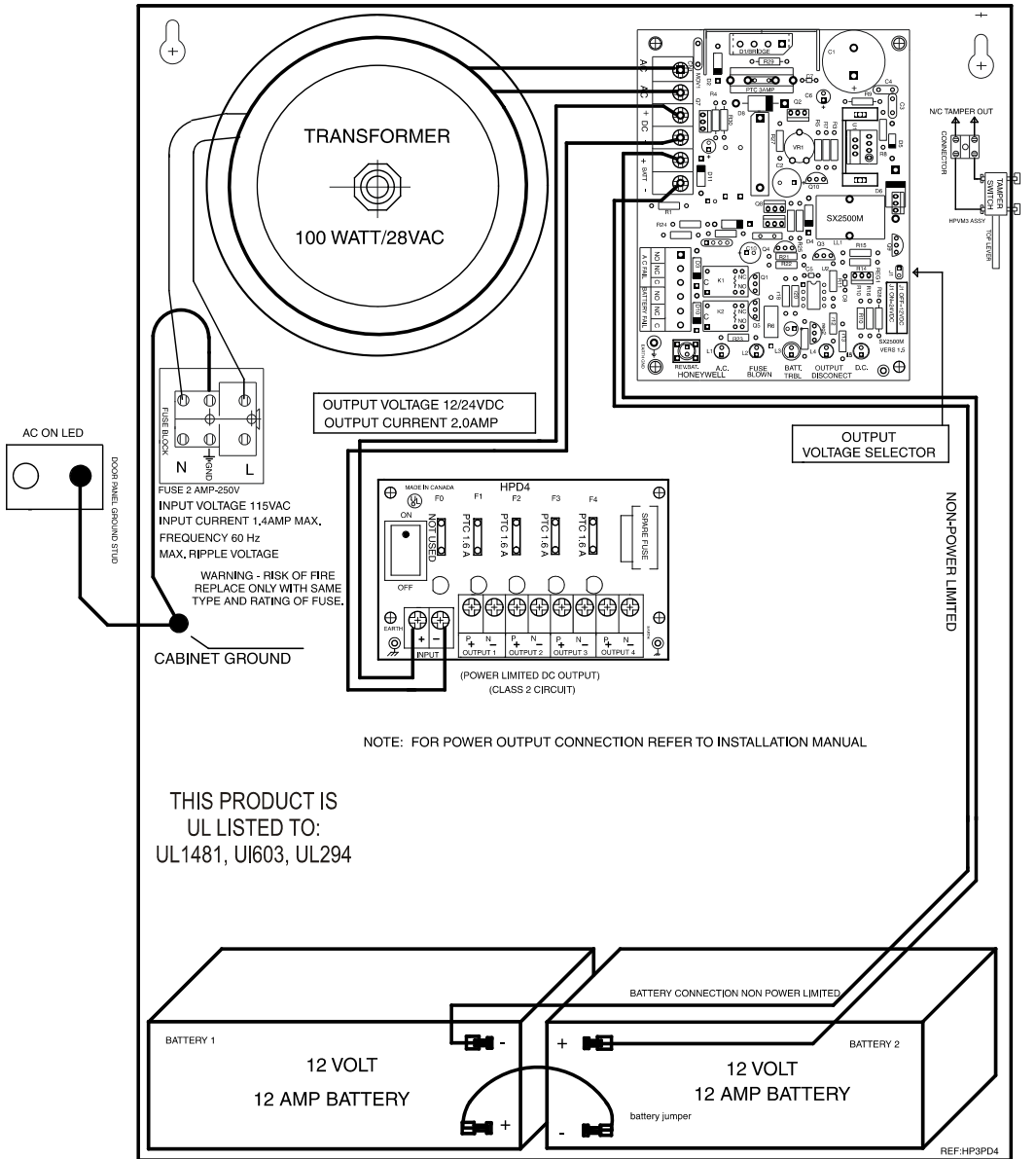
REGULATED POWER SUPPLY CHARGER
UL LISTED AS FOLLOWS:

- UL294 ACCESS CONTROL SYSTEMS
- UL603 POWER SUPPLIES FOR BURGLAR ALARM SYSTEMS
- UL1481 POWER SUPPLIES FOR FIRE PROTECTIVE SIGNALING SYSTEMS

NOTE: PLEASE REFER TO HP300ULPD4CB INSTALLATION MANUAL
FOR WIRING DIAGRAM, OPERATING INSTRUCTIONS, ETC. (PART NO: 004001 REV.02 2006/23/01)

HONEYWELL POWER PRODUCTS
NORTHFORD, CT
WWW.HONEYWELLPOWER.COM

DATE OF MFG:



KEEP POWER LIMITED WIRING AT .25" MINIMUM SPACING FROM NON-POWER LIMITED

For additional information:

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