

**PTDPSU
(SA12040)****PassPoint Power Supply**

INSTALLATION INSTRUCTIONS

General Information

The PassPoint access control system uses power supplies as necessary throughout its topology to supply power to the various PassPoint modules (e.g. MLBs, DCMs, etc.). Physically, the power supply is a 2.5" x 8" circuit board that mounts in the system cabinets along with the other system modules.

Note: The PTDPSU as a module can be part of a PTASK, PTDEK, or a PTCANPOWER.

The power supply is connected to the AC line voltage via an 18VAC, 50VA wall pack power transformer. The power supply provides a battery backup/charger connection and supports a 7AmpHour battery.

Power supply outputs

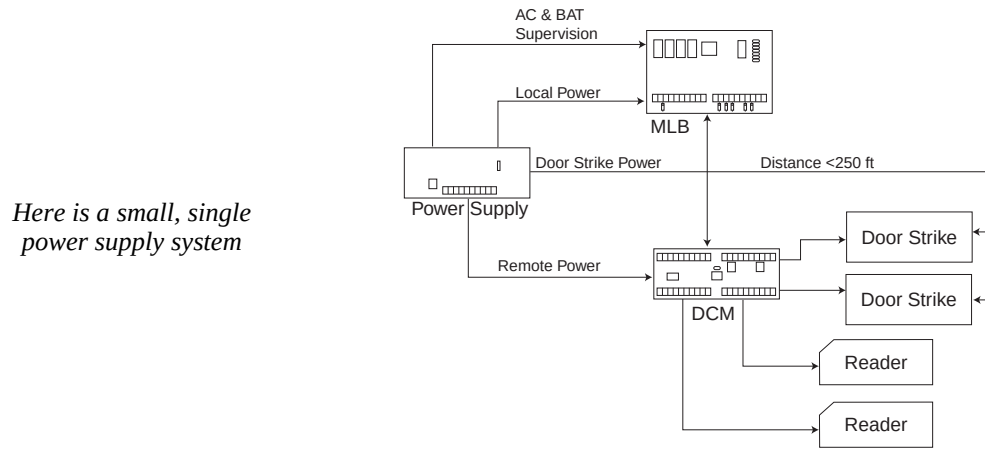
The power supply outputs 14 Volts (+/- 10%) at 900mA to power up to two door control devices (magnetic locks or door strikes). The power supply also provides Local Power output (J1) of 13.7 Volts (+/- 2.5%) at 450mA output that can be used to power a module mounted in the same cabinet as the power supply. It also provides a Remote Power output of 14 Volts (+/- 10%) at 450mA that can be used to power an additional logic board mounted inside the cabinet (J5) or outside the cabinet through TB1 terminals 4 and 5.

The power supply provides two supervision outputs. One supervision output denotes the presence of AC voltage. The second supervision output denotes a low (or no) battery condition. The state of the AC voltage will be tested once every second. A quick battery test will be performed for 1 second once per minute and an extended battery test (8 minutes) will be performed once per 24-hour period. To test the battery, the power supply output is reduced so that the microprocessor on the power supply can measure the charge of the attached battery. Most PassPoint modules provide AC and battery supervision inputs, so they can monitor the state of their associated power supplies.

Note: For PassPoint modules to monitor these supervision outputs, they must be connected to J1, J5, or terminal board terminals 9&10 on the power supply.

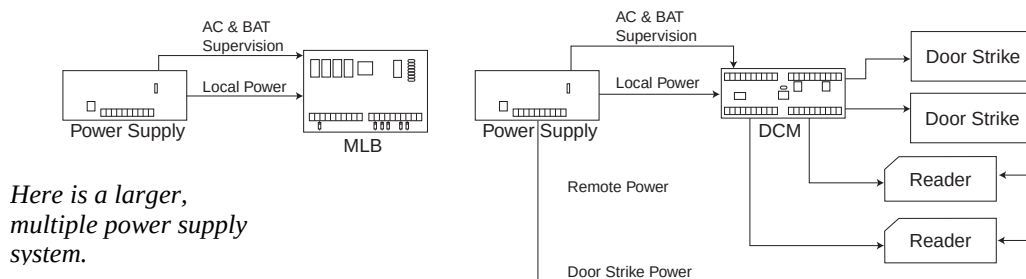
Power Distribution Methods

Power supplies are used throughout the system depending upon system power needs. The following diagrams depict some possible power supply placements.



If the distance is greater than 250 feet (using 22 gauge wire), a second power supply must be located near the DCM, in closer proximity to the door strikes being operated. In this case, the MLB monitors its own power supply and the remote power supply is monitored by the DCM.

For larger systems with more than one DCM, each DCM requires its own power supply. These power supplies must be in close proximity to their associated door control devices, and each DCM monitors the supervision outputs of its power supply.



In the configuration shown above, the DCM/power supply combination can be replicated as many times as needed, depending on the number of access points to be controlled.

Note: For detailed wiring information including gauges, wire-run lengths, etc., refer to your *PassPoint Express Installation and Setup Guide* (N8949) or *PassPoint Plus Installation and Setup Guide* (K4879).

Power Supply Specifications

Switching Regulator Output:	13.3V +/- 1.2VDC @ VAC Input: 102V-132V ripple 600mVpp
Linear Regulator for Local Power Output:	13.7VDC @ 450mA
Total Power Supply Output Current:	1.8A +/- 200mA
Door Strike/Mag Lock Max. Current:	900mA
J1 Local Logic Power Output:	450mA max.
J5 Logic Power Output:	450mA max.
AC Loss LED:	Green
Low Battery LED:	Yellow
Heartbeat LED:	Red
Battery Backup:	12V/7AH

When AC input is disconnected, the output voltage is dependent upon the battery voltage. As the battery discharges, the output can fall below the range specified above. Note that the system can provide warning messages of low battery voltage and recommended battery shut-down.

Note: When powering-up this panel, plug the transformer in before connecting the battery. Connect to a 24-Hr. wall outlet. All circuits are power-limited.

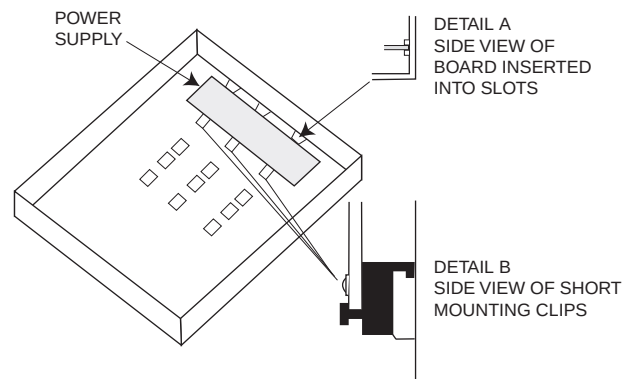
Mounting the Power Supply in a Cabinet

1. Hang three black mounting clips on the upper raised cabinet tabs.

The upper raised cabinet tabs are the three tabs nearest the top of the cabinet. The diagram shows the location of these tabs. It also shows (in Detail B) how to position the mounting clips.

2. Insert the top of the power supply circuit board into the slots at top of cabinet.

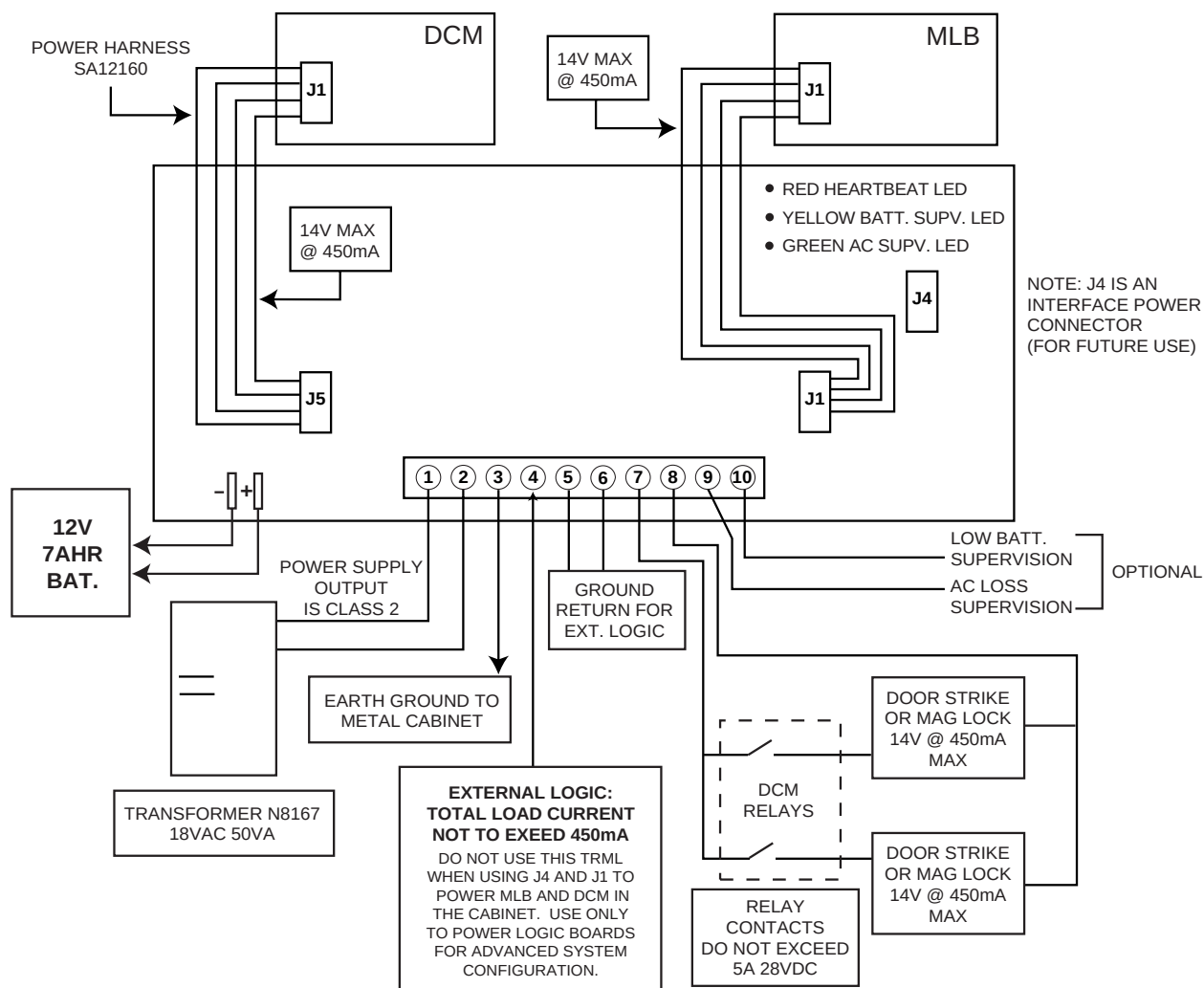
Make sure that the board rests on the correct row. Detail A of the diagram shows how the circuit board should be inserted.



3. Swing the base of the board into the mounting clips and secure the board to the cabinet with the accompanying screws.

Power Supply Connections

Wire the power supply according to the diagram below:



Warranty Information

For complete warranty information about this module and the entire PassPoint system, refer to the documentation accompanying your PassPoint system.



5007 South Howell Avenue
Milwaukee, WI 53207
www.nciaccess.com

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