

Securitron® AQL102/104 Intelligent Power System

ASSA ABLOY

Quick Start Guide

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Overview

This guide gives the basic information needed to install a system containing a single Securitron AQL Power supply for most applications.

Specifications and more details
found in the full manual here.
(Downloadable pdf)



- 1 AC Input Voltage Selection** – Leave INTACT for 120 V input. CUT for 230 V input.

Failure to cut this jumper when using the Securitron AQL with a 230 VAC input will result in damage to the system.

- 2 AC Input** – The primary AC connection. Cut JP1 for 230 VAC input.

- 3 AC ON LED (GREEN)** – Indicates a valid AC input voltage is present. Missing AC is indicated by this LED extinguishing.

Always confirm the absence of AC power with a meter before servicing to prevent electric shock.

- 4 FAI LED (RED)** – Indicates activation of the Fire Alarm Input.
- 5 Charge Current / Main output FAI Configuration Switches**

SWITCH 1 FAI Selection	SWITCH 2 Charge Current
OFF= Constant Output	OFF= High Charge Current
ON= Output switches on FAI	ON= Low Charge Current

- 6 FLEX IO Connector** – Supplies FAI status to any accessory boards. Receives fault signal from accessory boards.
- 7 System Fault Contact** – Contact labeling is adjacent to the terminals and shown in the unpowered (FAULT) condition.

- 8 AC Fault Contact** – Contact labeling is adjacent to the terminals and shown in the unpowered (FAULT) condition. AC fault is indicated on a missing AC Input voltage.

- 9 AUX Voltage** – The auxiliary voltage is a fixed Class 2 Power Limited DC output.

- 10 FAI Input** – The input from the FACP. Can be wired to accept a NO, NC, Open Collector, or Voltage input.

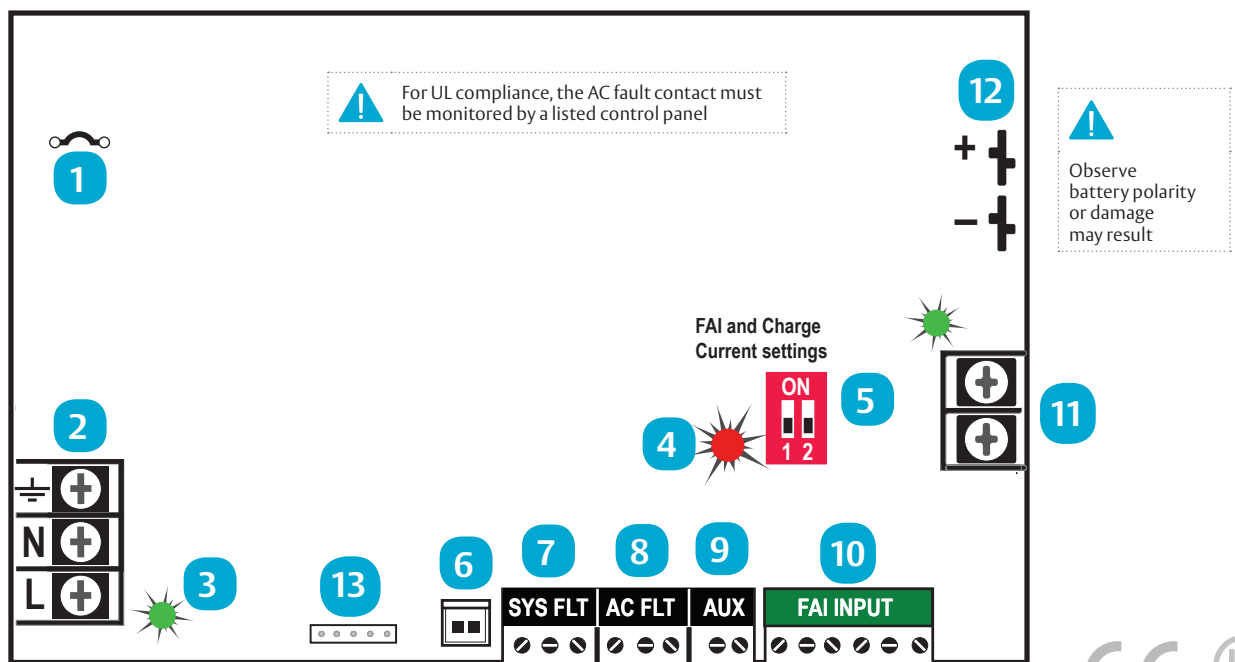
- 11 Main Output** – This is the main DC output of the power supply. The output can either be constant or switched based on the configuration setting of switch 1 (see number 5 on this page). The DC ON LED will light: GREEN 12 V | BLUE 24 V.

- 12 Battery Terminal Connection** – The connection for the optional backup battery. Battery set voltage must match the DC output voltage setting.

Power Supply Fixed Voltage:

- Securitron AQL102: 12 V / 10 Amps
- Securitron AQL104: 24 V / 10 Amps

- 13 DataLink Connection** – This connector allows optional programming and monitoring of the Securitron AQL power supply via an optional NetLink network module. See the instructions for the Netlink module for more information.

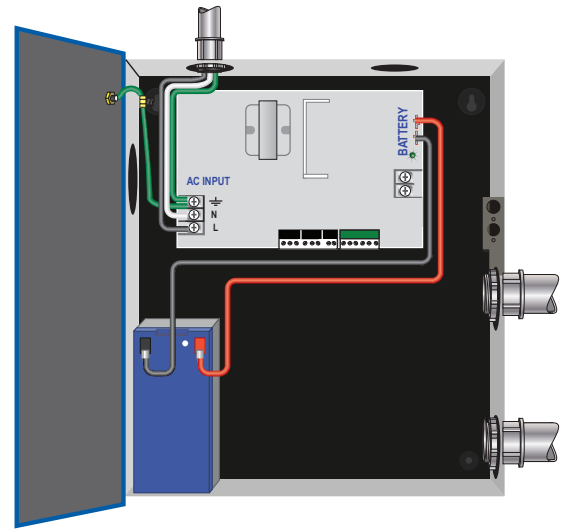


Typical Installation & Wire Routing

Actual configuration and wire routing will vary based on the components installed in your system.

The following guidelines should be followed for installation:

- Class 2 Power limited wiring must be separated from nonpower limited wiring by a minimum of 1/4" and must use separate knockouts.
- Any wiring passing through knockouts in the bottom or top surfaces of the enclosure must be enclosed in rigid or flexible metal conduit.
- **Canadian Installations** – For permanently connected equipment, a readily accessible disconnect device shall be incorporated external to the equipment. Output circuits not connected to removable terminal strips shall also utilize a readily accessible disconnect device.



Mounting Power Boards to the Enclosure

Mounting a Securitron Intelligent Power Board to an enclosure is via the four snap-in standoffs supplied.

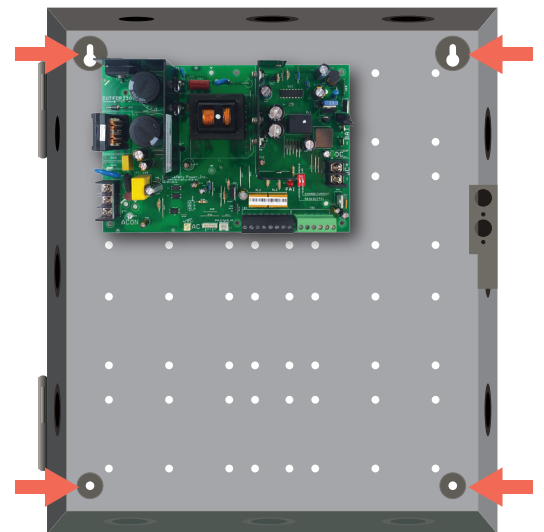
- 1 Locate the appropriate mounting holes in the enclosure and snap the standoffs into the holes.
- 2 Align the board mounting holes with the standoffs (be sure the PC board is properly oriented) and snap the board onto the standoffs.



Mounting an Enclosure to a Wall

Use the following procedure when mounting a wall-mount enclosure.

- 1 (Optional) Remove the enclosure's cover.
- 2 Locate the top keyhole mounting holes in the back of the enclosure.
- 3 Mark and pre-drill the locations for the keyholes in the mounting surface.
- 4 Partially install two fasteners appropriate for the surface on which the enclosure is being installed. Leave the heads of the fasteners approximately 1/4" out from the surface. Minimum fastener size should be #10 or larger.
- 5 Hang the enclosure on the two fasteners and mark the locations of the remaining mounting holes.
- 6 Remove the enclosure and pre-drill the locations for the remaining mounting holes.
- 7 Re-hang the enclosure on the top mounting fasteners, start the remaining fasteners and tighten all fasteners.
- 8 Reinstall the enclosure's cover, if removed in step 1.



It is the installer's responsibility to determine the appropriate fastening system for use with the surface the enclosure is being mounted to. For UL1076 applications, after installation is complete, the installer must install the two supplied 1" long screws to the edge of the enclosure's cover for additional security.