

Addendum: 65kAIC Input Breaker Option

Overview

The 65kAIC breaker option is available for customers who wish to improve the withstand rating of the input breaker for their application. This option does not change the output ratings of the 150k PDU. This addendum lists the conductors required for installation and an overview of the installation steps.

Connect the Power Source to the PDU

Access the PDU main input breaker

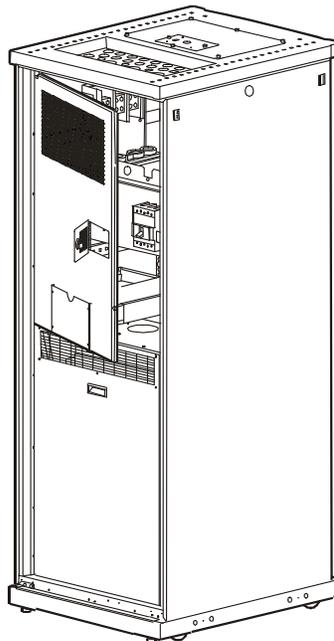
⚠ DANGER

HAZARD OF ELECTRIC SHOCK

- Perform lock out/ tag out procedures before starting installation or repairs. These procedures remove access to a device and physically label the device as intentionally out of service while servicing the equipment.
- Only certified electricians are authorized to connect power to the PDU.
- The PDU must be installed in accordance with the National Electrical Code or the Canadian Electrical Code and all applicable local codes.

Failure to follow these instructions can result in death or serious injury.

After performing Lock Out / Tag Out, open the back doors of the PDU by first unlocking the smaller door on top using the provided key, and then loosening the two thumb screws holding the larger door in place.

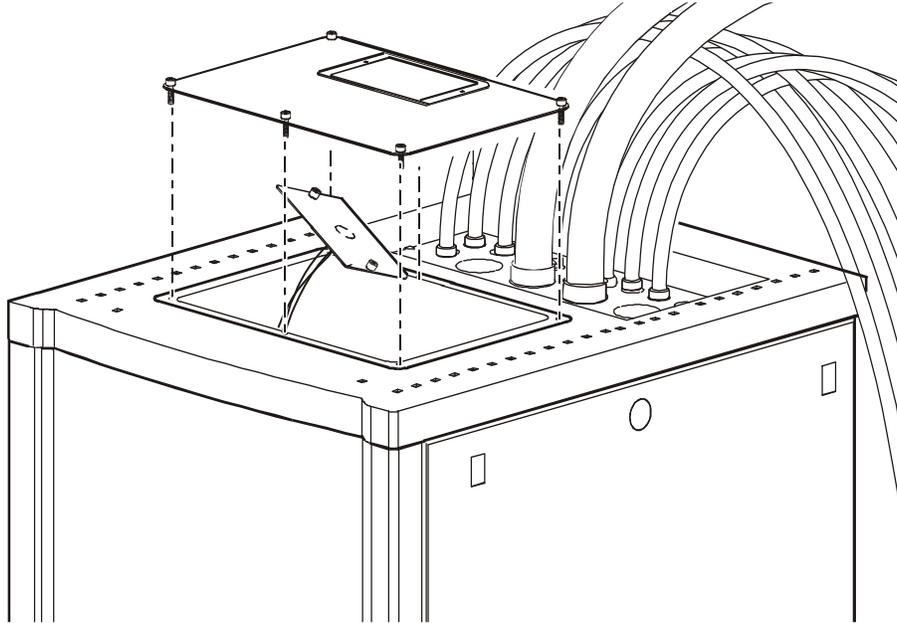


Attach conduit to the PDU for the input conductors

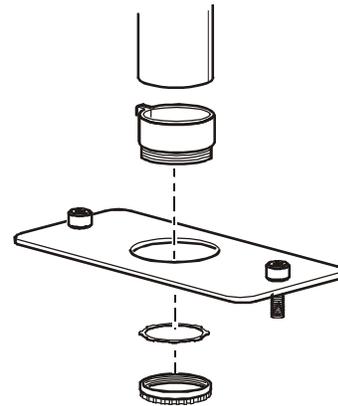
1. Remove the top or bottom rectangular gland plate by loosening the captive screws using a Phillips or standard screwdriver:

For wiring under a raised floor: Remove the gland plate at the bottom of the PDU.

For overhead wiring: Remove the gland plate on the roof of the PDU, and then detach the user connection plate from the gland plate, route the user connection plate through the opening left by the gland plate, and then carefully set the user connection plate aside on top of the enclosure (do not disturb the connected wires).



1. Use a knock-out punch to create an appropriate-sized hole in the gland plate for the conduit.
2. Install a lock-nut and bushing to the conduit.
3. Thread the conduit through the hole.
4. Re-attach the user connection plate to the gland plate.
5. Re-attach the gland plate to the PDU enclosure.



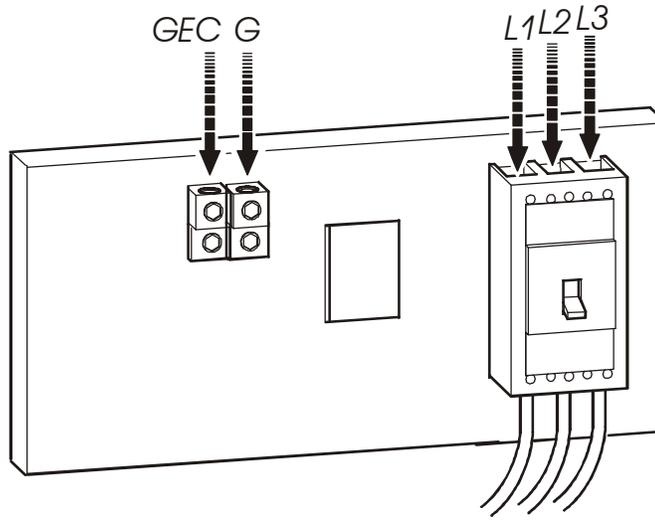
Route the input conductors to the main input breaker

Route the input conductors to the main input breaker on the PDU and connect the input wiring according to the labels on the breaker and the following illustration. Refer to the table below (Torque specs and tools required) for specific information about connecting to each terminal.



Warning: Connect the conductors to the terminals according to the labels on the terminals. Use copper conductors only.

3-phase, 3-wire + ground + GEC to building steel*



*Other types of electrodes may be used if building steel is not available. Consult the NEC 250.30 for requirements.

Electrical Requirements and Specifications

65kAIC Main Input Breaker Option

Electrical requirements

	480 V	600 V
Service distribution breaker ^{†‡}	250 A	200 A
Conductors to main input breaker [†]	3W + G + GEC	3W + G + GEC
Recommended wire sizing [‡]		
L1, L2, L3	300 kcmil	3/0 AWG
G	4 AWG	6 AWG
GEC	2 AWG	4 AWG

[†] Provided by customer. Copper conductors only!

[‡] The specifications are recommendations only. Consult the NEC and local codes for requirements specific to your installation.

Torque specs and tools required

Before connecting to the terminals, verify the torque specs below by checking the specifications on the main input breaker.

Terminal	Torque	Tools
L1, L2, L3	31 Nm (275 in-lb)	5-mm Allen wrench
G	4–6 AWG: 5.0 Nm (45 in-lb)	Slotted screwdriver
GEC	2-4 AWG: 5.6 Nm (50 in-lb)	Slotted screwdriver

Customer support and warranty information is available at the APC Web site, www.apc.com.

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