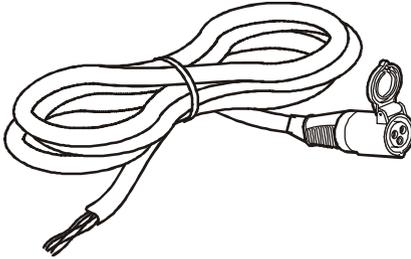


InfraStruXure PDU Power Cable

Installation and Specifications

Power Cable with IEC 309 Connector



Safety



APC does not recommend that you perform maintenance of the PDU or RDP while it is receiving input power.

However, due to the critical nature of data center loads, this may occur. If you must perform maintenance while the PDU or RDP is receiving input power, observe the following precautions to reduce the risk of electric shock:

1. Never work alone.
2. Perform the maintenance only if you are a certified electrician who is trained in the hazards of live electrical installation.
3. Know the procedure for disconnecting electricity to the PDU or RDP and the data center in case of an emergency.
4. Wear appropriate personal protective equipment.
5. Use double-insulated tools.
6. Always follow local and site regulations when working on the PDU or RDP.



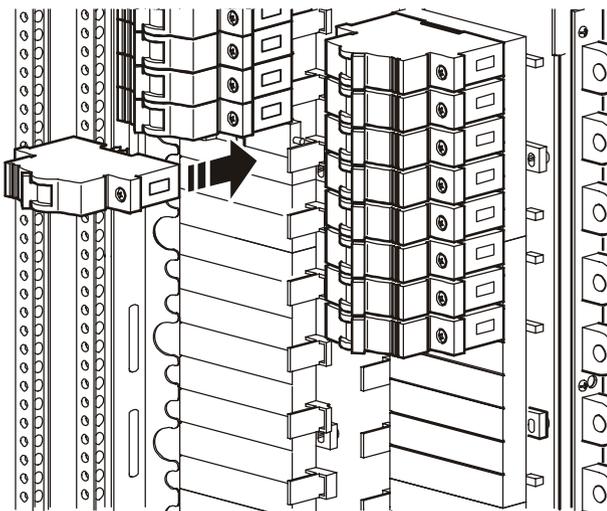


Ensure that the power cables are protected for over-current in accordance with the power cable rating.

How to Install Power Cables on an InfraStruXure PDU or RDP

Add a circuit breaker on the PDU or RDP

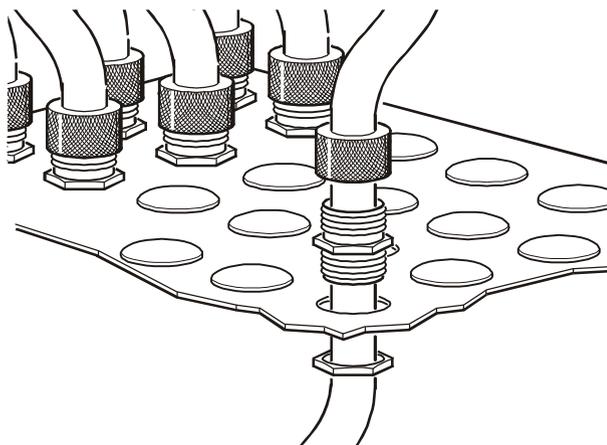
- 1 Move the clip on the back of the breaker to correspond to the phase which you are connecting (L1, L2, or L3).
- 2 Snap the new single-pole breaker into an open position on the panel.
- 3 Remove the corresponding plastic blanking plate on the front panel of the PDU or RDP.



Add a power cable to the PDU or RDP

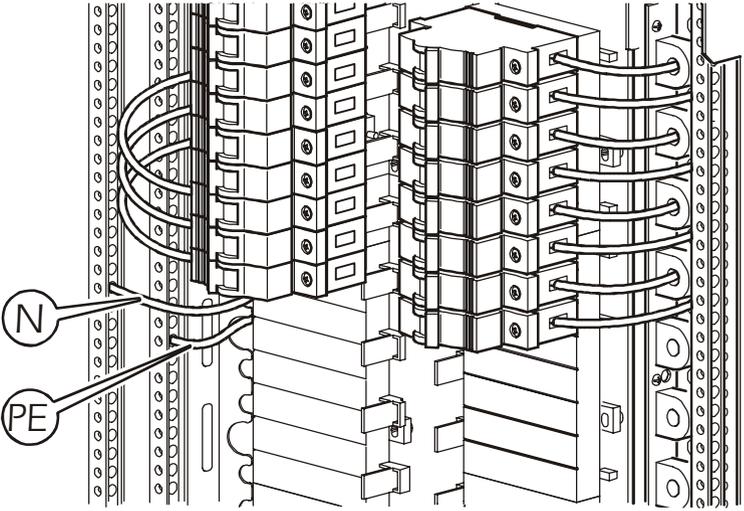
Before adding a power cable, add a circuit breaker.

- 1 Install a strain-relief connector in any available knockout on the roof of the PDU or RDP.
- 2 Slide enough of the power cable through the strain-relief connector to reach the new circuit breaker.
- 3 Tighten the strain-relief connector.



Connect the power cable wires

At the front of the PDU or RDP, connect the power cable's individual wires:

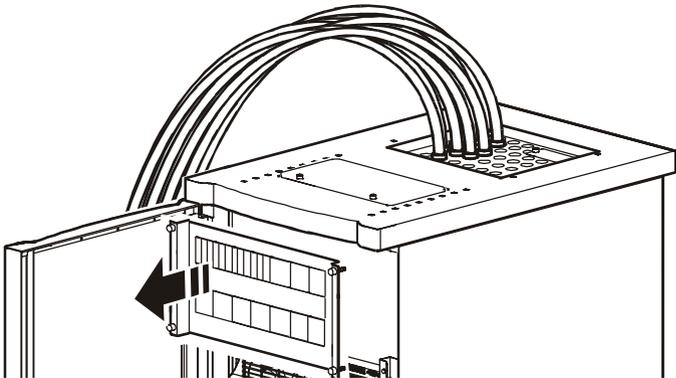


- 1 If you have branch current monitoring installed, route the phase conductor through a current sensor.
- 2 Connect the line wire to the circuit breaker.
- 3 Connect the neutral wire to the closest open termination point on the Neutral Bar (N).
- 4 Connect the PE wire to the closest open termination point on the PE Bar (PE).

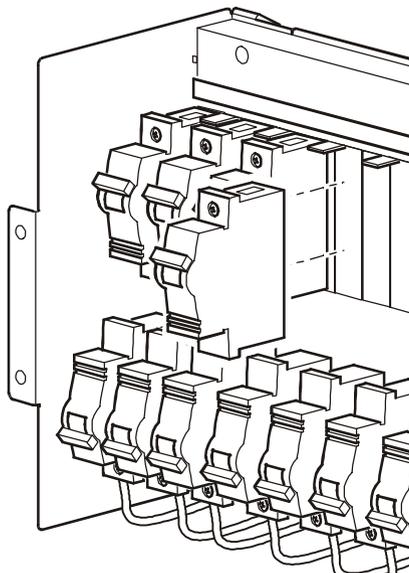
How to Install Power Cables on an InfraStruXure 20kW System

Add a circuit breaker

- 1 Remove the panel cover to access the circuit breaker panel. To remove it, loosen the captive screws at each corner of the cover and pull it off the system.

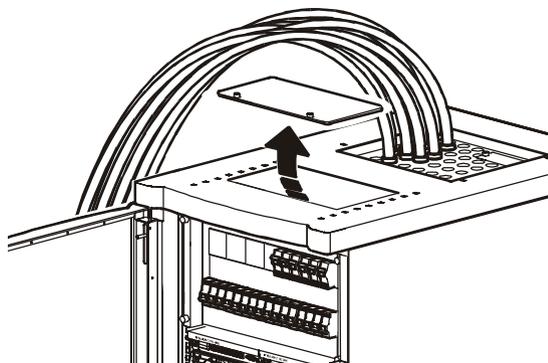


- 2 Move the clip on the back of the breaker to correspond to the phase which you are connecting to (L1, L2, or L3).
- 3 Snap the new circuit breaker into an open position on the panel.
- 4 Remove the corresponding plastic blanking plate on the panel cover, and re-attach the cover to the system.



Remove the wiring access cover

To attach power cables and to wire the circuit breakers, remove the wiring access cover in the roof of the system. If you require more room, remove the main input access panel. If you have side access to the system, you can remove the side panels and interior side access covers as well.

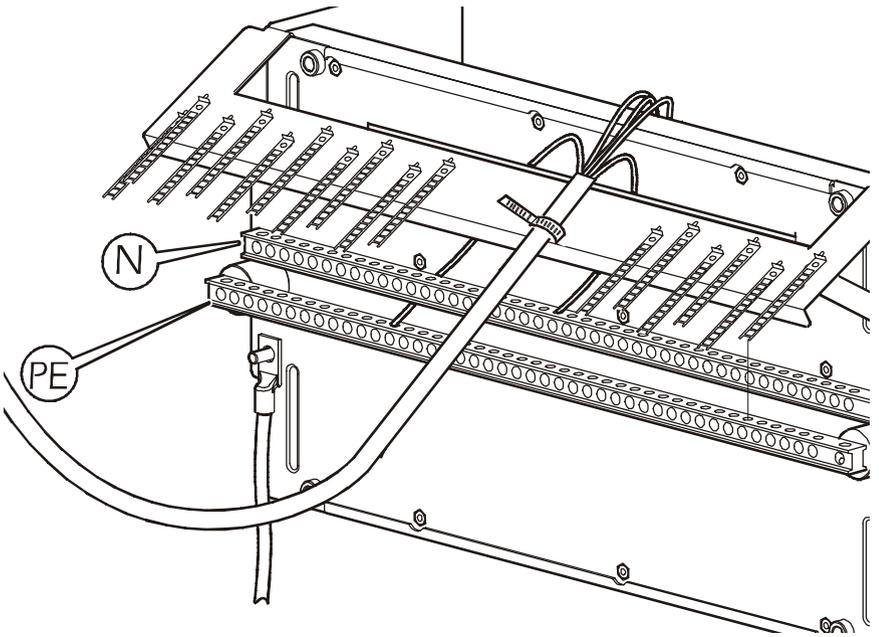


Add a power cable

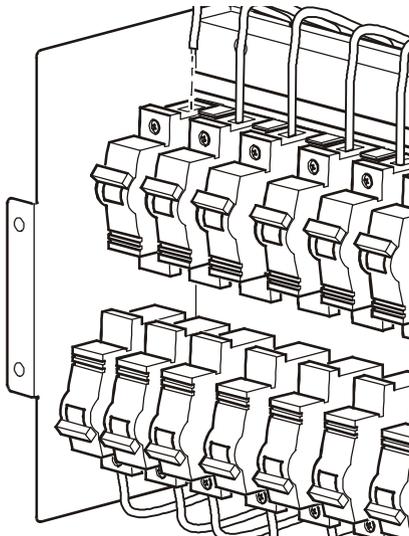
See “Add a power cable to the PDU or RDP” in this document for instructions.

Connect the power cable wires

- 1 At the back of the panel:
 - A Secure the power cable using the wire ties on the back of the panel.
 - B Connect the neutral wire to the closest open termination point on the Neutral Bar.
 - C Connect the PE wire to the closest open termination point on the PE bar.
 - D Route the L1, L2, and L3 wires over (shown) or under the back of the panel.



- 2 At the front of the panel, connect the L1, L2, and L3 wires to the circuit breaker or breakers. The illustration below shows single-pole breakers; however, you can also connect three-pole breakers.





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