

Heat mitigating sidecar solution

PDU sidecar upgrades

Is distribution density becoming an issue with your existing equipment?

Release your transformer's full potential by adding a sidecar upgrade. Eaton has PDI pre-engineered sidecars equipped with panelboards, subfeed breakers or a mixture of both.



Heat mitigating sidecar solution

Heat mitigating sidecars aid in the dissipation of transformer heat between the main PDU cabinet and its corresponding sidecar(s) by using a Lexan barrier, 100% rated breakers and exterior panels with enhanced ventilation design.

Features & Benefits

- 100% rated breakers
- Lexan barrier & enhanced ventilation
- Factory engineered solution
- Adds additional capacity for existing PDUs

Value

- Reduces sidecar heat by ~22°F
- Field installation labor reduced by 2hrs
- Increased air flow by compartmentalization

Options

- 250A & 400A options
 - Branch circuit monitoring
 - Panelboard or Subfeed Breaker solutions
 - 4 (42) circuit panelboards or 8 subfeed breakers
 - OEM & third party solutions
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- Full upgrade Includes: 21-inch front and side facing sidecar, 6-inch rear spacer, PDU cabinet top hat and new ventilated side panels. Customized and partial solutions are available.

Whether you have an existing sidecar or looking for additional output for your current PDU, Eaton can tailor a solution to maximize your power density and minimize footprint and downtime.

Test Results



Before upgrade:
Ambient air temperature = 26°C (78.8°F)
Maximum temperature zone readings:
Upper sidecar cabinet = 58°C (136.4°F)
Upper transformer cabinet = 68°C (154.4°F)

After upgrade:
Ambient air temperature = 26.6°C (79.9°F)
Maximum temperature zone readings:
Upper sidecar cabinet = 45.5°C (113.9°F)
Upper transformer cabinet = 66.1°C (151°F)
Sidecar Cabinet = 22.5°F

** Factory engineered solution reduces field installation by 2 hours*

About Eaton and PDI

With the acquisition of Power Distribution, Inc., Eaton has significantly enhanced its ability to design, manufacture and service mission-critical power distribution, static switching and power monitoring equipment for data center, alternative energy, industrial and commercial customers around the world.



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