

Power Distribution Unit

Front Access Only



Front Access PDU with transformer access covers removed

The front access Power Distribution Unit (PDU) builds on Eaton's strong portfolio of three-phase power distribution. The front access PDU increases the flexibility of the product line and allows for placement in space constrained applications such as against the wall or a corner install. The front access PDU offers ratings from 50 to 300 kVA and K13 and K20 transformers, including TP-1 efficiency. Included Energy Management System (EMS) offers cost effective intelligence to manage load profiling.

Easy Service and Setup

Reduce installation time and save on startup costs

- Optional IR scan windows allow for true front access maintenance/inspection
- Bottom and top entry/exit
- Top only cable entry/exit provides high efficiency power distribution to non-raised floor environments and retains the bottom exit for easy expansion and relocation
- Can be installed close to the wall to optimize floor space
- Easily removable side and rear covers with captive hardware
- Front access control panel for all standard communication expansion and maintenance
- Backed by Eaton's extensive network of over 240 field technicians for fast reliable service
- True front only design for operation and access

Monitoring and Connectivity

To understand your power profile

- Eaton's Energy Management System (EMS) provides state-of-the-art monitoring and alarming provisions
- PXGX PDP communication card allows for daisy chaining multiple PDUs together, reducing individual network drops to your power equipment
- Monitor the PDU from any computer without software through the integrated web interface, or easily integrate into existing building management systems or Eaton's Power Xpert Software
- Stores consumption trends for up to 24 months
- Up to 100A branch breaker CTs available

Safety

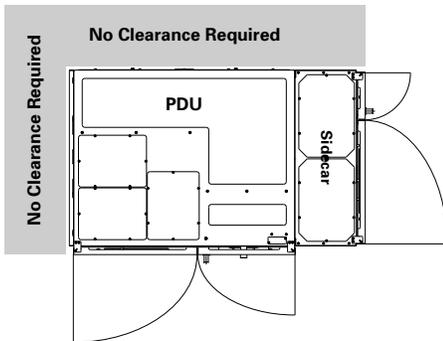
Protecting employees, contractors and service personnel

- Protective trim panels cover panelboard bus/breakers/wiring from accidental contact
- Separation of Low/High/Control voltage sections for safer servicing
- UL/CSA approved 60950
- **Shunt trip in subfeed breakers**

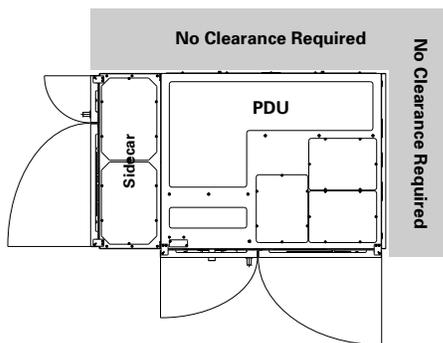
Aesthetics and Flexibility

Providing the right form-factor for demanding applications

- Durable textured finish gives a clean professional appearance to facilities and data centers
- Side car required to expand distribution capacity
- Field upgrade options for panel boards and subfeed breakers



Top view of front access PDU with right side facing sidecar



Top view of front access PDU with left side facing sidecar



Powering Business Worldwide

TECHNICAL SPECIFICATIONS¹

Category	Up to 150 kVA	200-300 kVA
ELECTRICAL CHARACTERISTICS		
kVA	50 / 75 / 100 / 125 / 150	200 / 225 / 300
Input Ratings	208 / 380 / 400 / 415 / 480 / 600V - 3 Phase, 3 Wire + Ground (Single & Dual Input) Dual Input: Basic or Premium ⁵	
Output Ratings	208V - 3 Phase, 4 Wire + Ground	
Frequency	60 Hz	
Transformer Type	Copper / Double Shielding / Class R (220°C) Insulation	
Transformer Characteristics	150°C Temp. Rise / K13 (Std.) & K20 (Opt.) / Std. & TP-1 Efficiency	
Transformer Compensation Taps	(4) 2 - 1/2% FCBN / (2) 2 - 1/2% FCAN	
Neutral Rating	200%	
POWER DISTRIBUTION		
Panelboards <i>Sidecar only</i>	(4) Panels in Sidecars ²	
Panelboard Options <i>Sidecar only</i>	Cutler-Hammer (Bolt-on or Plug-on) or SquareD Panels (225A & 400A Main Breakers)	
Subfeed Breakers <i>Sidecar only</i> 80% or 100% (CH only) rated	Up to (8) 225A Frame ⁴	Up to (12) 225A Frame ^{2,4} Up to (5) 400A Frame ² Up to (3) 600A Frame ²
Branch Breaker	Factory installed branch circuit breaker ³	
Additional Subfeed Breakers	Up to (2) 225A Frame	Up to (2) 225A Frame or (1) 400A Frame
Sidecars	Up to (2) Front or Side Facing Sidecars	
Sidecar Options	(2) 42-pole Panels or (4) 225A Frame Subfeeds (each Sidecar)	
DIMENSIONS		
Main Cabinet <i>Sidecar required for distribution options</i>	39"W x 35"D x 80"H	44"W x 35"D x 80"H
Front Facing Sidecar	24"W x 35"D x 80"H	
Side Facing Sidecar	9.5"W x 35"D x 80"H (PRL3) 12.5"W x 35"D x 80"H (PRL4)	
STANDARDS		
NEMA, UL 60950, CSA 60950		

1. Due to continuing improvements, specifications are subject to change without notice.

2. Please see sales configurator for additional information.

3. Branch breaker schedule required at time of order.

4. When using optional PRL3 panelboard, a maximum of (4) 225A Frame breakers can be installed.

5. Dual Input requires a Right Hand Sidecar.

Options

- Dual Input⁵
- Branch Circuit Monitoring
- **100% Rated Sub-Feed Breakers**
- **100% Rated Panel Main Breakers**
- Subfeed Breaker Monitoring
- High kAIC main input and subfeed breakers
- Surge Protection Device (100 or 200kA) UL1449
- Lightning Arrestor
- Transient Suppression Plate
- Isolated Ground (*Standard*)
- Clear Plexiglas Doors
- Load Bank Test Lugs (standard)
- Lockout Breaker Tabs
- Air Skirts
- Floor Stands - seismic (12", 18", 24", 30", 36" & 48")
- High Voltage Input Junction Box
- Low Voltage Control Junction Box
- **Input & Ground Compression Lugs**
- Dual Input Basic with Kirk Key Interlock
- Dual Input Premium Sync Check with Kirk Key Interlock

General

- Natural Convection Cooling
- All Swivel Casters
- System Level Metering Included
- 8 x 40 Character LDC Display
- Top & Bottom Entry
- Protective Trim Panels
- Cable management for Input & Panel Wiring
- (2) X-Slots for Communication

Control

- Local EPO (optional)
- REPO provisions
- Up to 4 Building Alarm Inputs (N/O or N/C)

Optional custom shutdowns on alarms:

- **Phase Rotation/Loss**
- **Ground/Neutral Overcurrent**
- **Transformer Overtemperature**
- **Output Overload**
- **Input Voltage Out of Tolerance**
- **Frequency Out of Tolerance**

Energy Management System

Monitored Parameters

- Input voltage (L-L & L-N)
- Output voltage (L-L & L-N)
- Output current (A, B & C Phases)
- Output neutral current
- System ground current
- kVA, kW, Hz
- Monthly, yearly, total output kWh
- Input voltage THD (all phases)
- Output Voltage and Current THD (A, B & C phases)
- Power factor (lead/lag indicator)
- Output current % (A, B & C phases)

Load Profiling

Captures highest and lowest reading on monthly basis with trend information over the last 24 months

- Input/Output Voltage
- Output Current
- Input/Output Frequency
- Output Power Factor
- Output kVA
- Input/Output Voltage THD
- Ground and Neutral Current

Warnings/Alarms

- Over-temp & shutdown
- Input/Output over- & under-voltage
- Input/Output over- & under-frequency
- Input/output phase rotation
- Output overload (3 Levels)
- Remote EPO
- Building alarms (4 programmable)
- Summary alarm
- Communication fault

Connectivity

- Modbus RTU (RS232/485)
- Power Xpert Gateway Card - PXGX PDP (Modbus TCP/IP, SNMP, Ethernet)



IR Scan Window



Aux and Shunt



Single Input Crimp Lug



EPO or No EPO Option

Eaton Corporation
8609 Six Forks Road
Raleigh, NC 27615
United States
800.356.5794

Eaton.com/powerquality

©2012 Eaton Corporation
All Rights Reserved
Printed in USA
PDU30FXA
January 2012