Power Distribution Unit Front and rear access



Available Options

- Panelboards with 400A panel main breaker
- Additional subfeed breakers
 - 225A (50-150kVA)
 - 225A/400A (200-300 kVA)
- Branch circuit monitoring up to 100A per branch CT
- Plexiglas see-through doors
- Input and ground compression lug provisions
- Air skirts
- Dual input with manual kirk key or sync check interlock
- Lockout breaker tabs
- Auxiliary and shunt trip main cabinet subfeeds
- No local Emergency Power Off option
- Field upgradable capabilities

The Eaton line of three-phase power distribution units (PDUs) provide robust power distribution that can be easily tailored to meet the design specifications of any facility or data center. The PDU offers ratings from 50 to 300 kVA and K13 and K20 transformers, including TP-1 efficiency. Energy Management System (EMS) offers cost effective intelligence to manage load efficiency.

Easy Service and Setup

Reduce installation time and save on startup costs

- Backed by Eaton's extensive network of over 240 field technicans for fast reliable service
- Ample cabling space between panelboards and for subfeed breakers
- Standard top and bottom cable access for more flexible installation options
- Front access for operation and general service requirements
- Easily removable side and rear covers with captive hardware
- Front access control panel for all standard communication expansion and maintenance

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
- Auxiliary contacts to interface with third-party monitoring for subfeed breaker positions

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 finish gives a clean professional appearance to facilities and data centers
- Side car options to expand distribution capacity



TECHNICAL SPECIFICATIONS¹

Category	Up to 150 kVA	200-300 kVA
ELECTRICAL CHARACT	ERISTICS	
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 DISTRIBUTIO	N	
Panelboards	Up to (6) 42-pole Panels - (2) Panels in Main Cabinet & (4) Panels in Sidecars²	
Panelboard Options	Cutler-Hammer (Bolt-on or Plug-on) or SquareD Panels (225A & 400A Main Breakers)	
Main Cabinet Subfeed Breakers 80% or 100% (CH only) rated	Up to (8) 225A Frame⁴	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	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	
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 chassis, a maximum of (8) 225A Frame breakers can be installed. 5. Dual Input requires a Right Hand Sidecar.

Powerina Business Worldwide

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", 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 with Sync Check

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

Single Input Crimp Lug



Aux and Shunt

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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 THD (all 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
- Input/Output voltage and current THD
- Output Overload (3 Levels)
- Remote EP0
- Building Alarms (4 programmable)
- Summary Alarm
- Communication Fault

Connectivity

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



EPO or No EPO Option

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