



Spacious Interior For Fast & Easy Installation

The Series 70 ePODs: Type X

Reliable Power Distribution

The Series 70 ePODs: Type-X is a safe and reliable Power Distribution Unit for critical industries. It features an NFPA 70E friendly design, an open layout, and the IP-20 rated SafePanel, to help protect operators and ensure safe operation. With an emphasis on reliability, safety, connectivity, and information centricity, the Series 70 ePODs: Type-X provides the functionality of a PDU in a stand alone cabinet.

The Series 70 ePODs: Type-X is designed to be easy to work with, featuring a large interior to minimize risk during installation, ideal for growing or constantly changing environments.

Designed for operations with the critical reliability requirements, the Series 70 ePODs: Type-X provides power distribution for a variety of installations, from 150 – 300kVA to 500kVA. The monitoring functionality of the Type-X offers revenue-grade metering, and is compatible with most system management software packages.

The LayerZero ePODs: Type-X contains advanced technology that is exclusive to LayerZero Power Systems, such as InSight Portholes for safe IR thermal scanning, black box forensics, and machined hardware for the highest reliability.



The Series 70 ePODs: Type-X provides advanced power management functionality, including Waveform Capture, branch monitoring, and remote connectivity.

Designed To Protect The Critical Load

- Improves the reliability of power distribution
- Reduces the probability of downtime

Ensures Safe Power Management

- Roomy design allows for safe maintenance
- Cable management simplifies wiring changes
- Insulated components protect operators

Advanced Connectivity

- Remote connectivity for off site monitoring
- SNMP, Modbus/TCP, http://, & Dry Contacts

Comprehensive Monitoring Ability

- Branch & Main level monitoring
- Waveform capture at every branch breaker
- Allows for more detailed power management

Electrical Configurations

Input Voltage: 480V

Output voltage: 120/208V; 240/415V

Normal inrush: 3.5% impedance; 10 -15 times inrush

5 x inrush option: 5.5% impedance; 5 times

k-ratings: 13, 20

Efficiency: NEMA ST20 (Non TP-1)

Heat rise: 150C

Isolated Ground:

Main CB ABB; Fixed; thermal magnetic; 65kAIC

EPO & REPO optional

Category B3 TVSS Secondary side

Output Distribution:

Sub-feed:

I-Line: Up to 12 x 225A or Y x 400A or Z x 600A Front & right

SafePanel: Up to 12 x 400A output CBs

Up to (4) 225A; or (2) 400A fixed/plug-in sub-feeds (front only access); 25kAIC @ 208V or 14kAIC @ 480V

Panel Boards ABB up to 4 12" one side

up to 8 12" on each side (total 24") both side access

Monitoring:

Mains (MCM) Primary standard
Secondary standard

Branch All circuits optional

WFC Optional

Extras parts

Floor stands

Top hats (if needed)

Mechanical Configurations

- Door-in-door construction
 - » Hinged inner doors for safety
 - » Two separate inner doors
 - a. Branch circuit panel inner door for normal panel board loading and wiring
 - b. Main Circuit breaker inner door for installation and maintenance access
 - » Hinged outer door
- Viewing window on outer door for branch circuit breakers and main circuit breaker position view
- Viewing windows on doors
- Top/Bottom main cable access
- Top/Bottom branch cable access
- Circuit identification tags on panel board
- Plug-in main circuit breaker is optional
- Input feeder connection options:
 - » Single mechanical lug
 - » Dual mechanical lug (accepts two conductors per phase)
 - » NEMA 2-hole studs for long-barrel, 2-hole compression lugs

kVA	Dim w/o Distribution	Distribution
150	36W x 48D x 80H	12"W
225	36W x 48D x 80H	12"W
300	36W x 48D x 80H	12"W
500	** 60W x 48D x 88H??	12"W?? TBD

Power Monitoring Option

To support the total needs of an increasingly information centric critical power distribution environment, the Series 70 ePanel may be optionally equipped with a branch circuit level and panel board main circuit power monitoring. The Panel Board Branch Power Monitor allows site management to monitor power consumption. This provides information that is increasingly vital to the revenue model of many data processing units.

In addition to measuring the main bus voltage of the panel board and delivering Waveform Capture upon anomaly of main bus voltage, the power monitor measures the following parameters for each of the 42 branch circuits in a given panel board:

- Current (A)
- Frequency (Hz)
- Power (kW)
- Apparent Power (kVA)
- Power Factor
- Power Consumptions (kW-H)
- Waveform Capture Upon Overcurrent At Any Branch
- Waveforms Capture records 12-cycles of when a Power Quality anomaly is detected on the Main Bus.

Connectivity Option

Each panel board is equipped with the ability to communicate measured information remotely to the Building Management System using open protocols. The connectivity is Ethernet based and the design is plug-and-play. Each panel board is assigned a fixed IP address. Information is accessed via:

- Web-browser (http://) service
- MODBUS TCP/IP service
- SNMP service

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