

Overview

The Liebert® MBX is a medium power encased track busway system offering a variety of capacity and connection configurations to match your IT rack equipment requirements. With a range of 250-800 amps, this aluminum chassis IP2X-rated busway provides optimal flexibility.

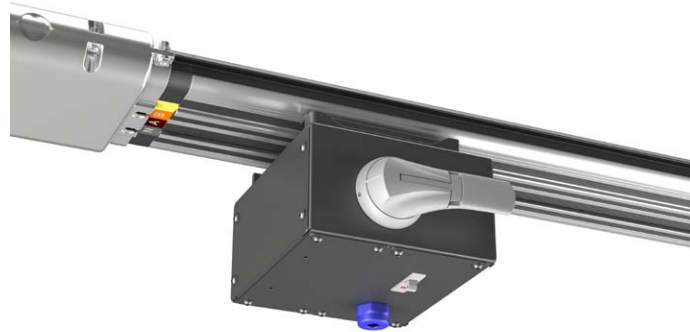
Ideally Suited For

- Data centers of any size
- Data centers with frequent or planned configuration changes
- Single or dual-bus configurations
- Raised and non-raised floors

Benefits

- Finger / touch safe IP2X certified
- Live plug-n-play with the add-on capability of tap-off boxes
- Solid Joint Pack construction
- Aluminum chassis is lightweight (compared to steel)
- Open-face track allows for tap-off boxes to be placed anywhere along the busway
- Tap-off boxes have mechanical and electrical interlocks utilizing a ground-first, break-last safety feature
- Industries most reliable, and user friendly plug-in tap-off box design

Liebert MBX Busway



Data center space can be a dynamic environment. Growth plans and pressures, equipment changes, technology refreshes, and more drive the need for scalable infrastructure. Building on fixed, inflexible support systems results in additional costs and a real potential for downtime.

As power requirements and IT equipment change, busway power distribution allows you to respond quickly and cost effectively. User-friendly busway helps insure uptime by maintaining power delivery during branch additions and by enhancing cooling airflow with reduced power cabling.

Standard Features

- Modular design
- 100% continuous rated Busway Track
- Copper bus
- Up to 13' lengths - Extendable
- Monitoring cable trough
- Up to 22kA withstand rated
- UL 857 compliant

Optional Features

- Multiple output receptacles
- Over-sized neutral
- Revenue-grade monitoring



Typical Data Center with Power Cables and Conduit



Data Center with Liebert MBX

Flexible, Modular Design for Easy Installation and Growth

Liebert® MBX Busway track provides high density distribution while providing full flexibility to position individual rack power connections. The modular system ensures correct power configuration at set-up that can be easily reconfigured as your needs change.

Busway Benefits

- **Scalable design** for quick change and future growth
- **Continuous power delivery** to active IT equipment loads
- **Minimized outside support** for branch adds and upgrades
- **Maximized cooling airflow** to IT equipment racks
- **Financial savings** in upfront cap-ex and site lifecycle costs



Busway Component Range

Liebert MBX busway tracks are available in a variety of straight lengths. Tap-off boxes come in multiple configurations of receptacle quantity and type to meet changing requirements.

Flexibility

- Available in 250, 400, 600, and 800A ratings
- Increases space efficiency and improves airflow
- Easy to change tap-off boxes
- Integrates easily into new or existing data center layouts
- Available in single or dual bus configurations

Higher Availability

- Hot-swappable tap-off boxes keep systems up and running even during changes
- Fully rated design
- Certified to UL 857 & CSA 22.2

Lowest Total Cost of Ownership

- Requires fewer and less expensive power cables
- 15-30% less installation time and cost compared to cables and conduit
- Plug-n-play tap-off boxes connected to rack PDUs can be installed by anyone — no electrician needed

Superior Design and Materials

- Busway track is solid copper (98% conductivity) and tin plated for superior electrical performance and corrosion resistance
- Requires no cutting or special tools
- Enclosed aluminum housing guards against incidental contact and contamination to live parts
- Enclosed chassis will not twist or distort during tap-off box installation.

The Right Power Configuration, Right Where You Need It

With IT equipment demands constantly changing, you need a power distribution system that can adapt at the same pace without interruption to existing critical loads and without the need for intrusive breaker and power cable changeouts.

Liebert® MBX gives data center managers flexibility, control, and peace of mind when changing and adapting to keep pace with hardware requirement demands.

Tap-off Box Benefits

- Change power requirements on the fly
- Plug-n-play to rack/rack PDU
- No interruption to existing critical loads
- No electrician required for installation
- Amps and receptacles sized to meet server needs
- Relocate and reuse tap-off box anywhere along the busway to maximize investment

Tap-off Box Features

- Up to 60A per tap off Box
- Up to 600VAC
- 10 and 22kAIC breakers available
- Accommodates any UL listed receptacle
- Flush-mounted receptacles
- Fits anywhere along the busway
- Tap-off boxes are readily installed on energized busway and are fully interchangeable



Tap-off Box Receptacle Options



NEMA - L5-15R
2P/3W 15A 125V



NEMA - L5-20R
2P/3W 20A 125V



NEMA - L5-30R
2P/3W 30A 125V



NEMA - L6-20R
2P/3W 20A 250V



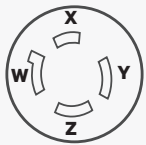
NEMA - L6-30R
2P/3W 30A 250V



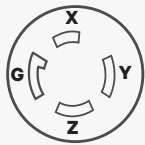
NEMA - L21-20R
3PH 20A
120/208V



NEMA - L21-30R
3PH 30A 120/208V



NEMA - L15-20R
3PH/4W 20A 250V



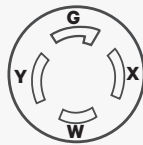
NEMA - L15-30R
3PH/4W 30A 250V



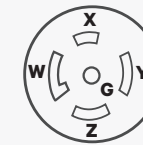
CS8364C/CS8369
3PH 50A 250V



IEC60309
3PH 60A 120/208V



NEMA - L14-30R
3P/4W 30A 125/250V



NEMA - L22-30R
3PH 30A 277/480V



IEC60309
3PH 60A 208V

Technical Specifications

Electrical Parameters

Voltage	up to 600V
Ampacity	250, 400, 600, 800A
Input Frequency	50Hz or 60Hz applications
Bus Material	Copper
Ground Rating	100%
Neutral Rating	100% or up to 173% in some configurations
SC Rating	Up to 50kA @ 250A and 400A, Up to 65kA @ 600A and 800A

Mechanical Characteristics

Grounding	Chassis GND standard
Housing	Extruded aluminum

Environmental

Operating Ambient Temperature	0°C to +40°C
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Standards

Protection Rating	IP2X, UL 857, CSA 22.2, CE
Environmental Standards	RoHS, REACH