Starline®
A brand of legrand®

# Raising The Bar for Flexible Power Distribution

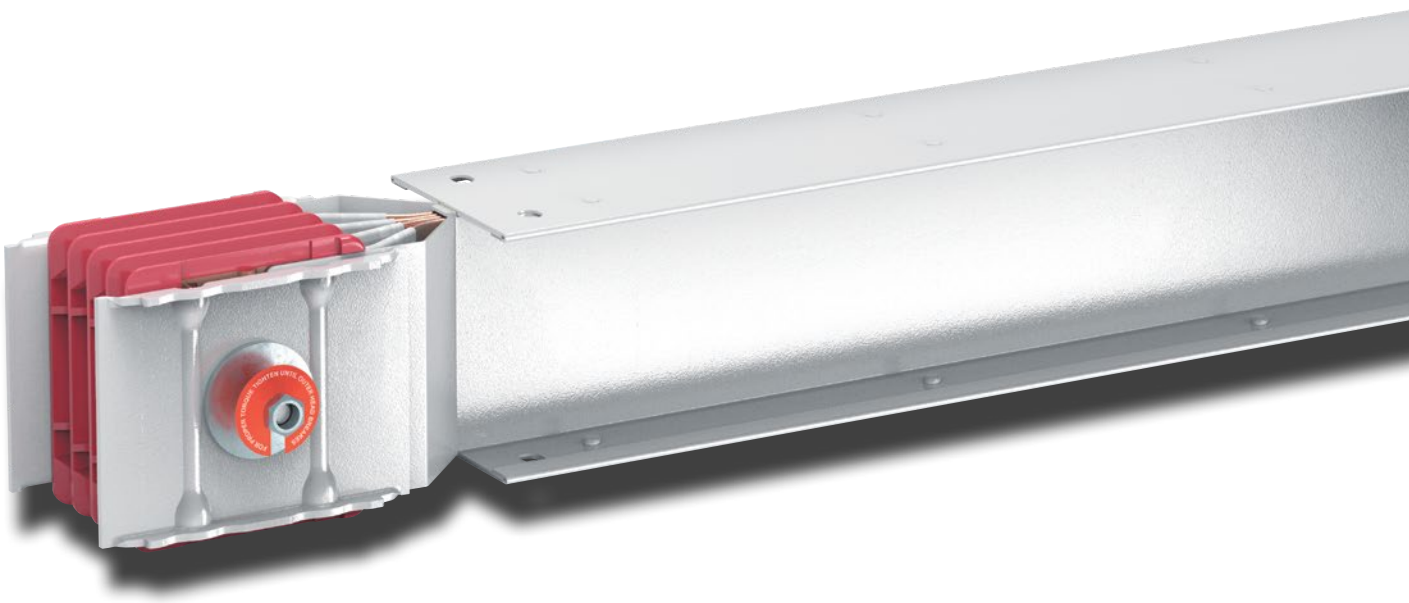
## PRODUCT OFFERING BROCHURE

# A Legacy of Power Distribution.

Starline, a brand of Legrand, is built on over 90 years of innovation in delivering safe and flexible power to various industries, businesses, and institutions. Expertly designed as a simple, versatile, fast, and economical solution for supplying power, our products are unique because they can be tapped instantly at any location. Plus, they can dramatically reduce downtime, as well as costs for expansion and new areas while providing ongoing customization and flexibility in power distribution. And Starline excels at collaborating with design engineers to provide solutions for any application or industry.

Starline Track Busway, Starline Plug-In Raceway, and Starline Critical Power Monitor are the industry standard for flexible power in mission-critical, data center, university, lab, industrial and retail environments. Time, money, and labor savings have made us the power distribution supplier of choice for businesses that recognize Starline's products are in a class by themselves.

# STARLINE
# XCP HIGH POWER BUSBAR



# Safety. Flexibility. Performance.

Starline's high-power busbar product line is designed to meet the unique energy distribution challenges of mission-critical facilities. Xtra-compact and easier to specify and install, with a leading range of options and ratings, Starline XCP provides the ultimate solution for data center builders and operators.

With higher short circuit ratings, excellent ingress protection, and seismic and fire resistance features, the XCP system offers best-in-class safety elements. Using high-end materials and superior insulation technology, it also has industry-leading ambient temperature ratings and low electrical losses resulting in significant energy savings.

## BENEFITS

### Better Project Management

- PSSL proprietary software guarantees fast and accurate AutoCAD layouts, BOMs, and BIM files

### Faster Installation

- Streamlined installation with the keyed, factory-installed joints with double head break-way torque nut design
- Single structure design for high amp applications reduces installation time and potential errors

### More Flexibility

- Available in Standard and High-Performance ranges to accommodate various applications
- Full range of accessories and features to make planning and designing easier
- Metal or Fiberglass Tap-offs offered to meet unique project requirements

### Energy Savings

- Low voltage drop design means energy savings resulting in lower total operating costs and better power usage effectiveness (PUE)

### Reliable and Safe Busbar Design

- High short-circuit ratings provide safer busbars and easier specification
- Up to IP65 degree of ingress protection ensure reliable transport of power in harsh environments
- The busbars are Fire Resistant rated to IEC 60331-1 with improved safety and compliance to local codes
- Interlocked tap-off units are designed to prevent accidental shock

## APPLICATIONS

### Data Centers/Mission-Critical

Mission-critical facilities can't afford costly downtime. This makes Starline an ideal choice for their power needs.

### Multi-floor power distribution

Any application where multi-story distribution is necessary, feed units are used at the start of the rising mains lines, when the busbar must be placed against the wall and powered using cables.

### Commercial Buildings

With rising mains and horizontal runs required for each floor, XCP is ideal for commercial power distribution.

### Industrial

Featuring up to IP65 ingress protection and high ambient operating temperatures, XCP can withstand any industrial environment.

## HIGH POWER BUSBAR SYSTEMS

Starline High Power Busbar comes in both Standard (XCP-S) and High Performance (XCP-HP) to meet the needs of all users. Both products range from 630-6300A, with either 3, 4, or 5 copper and aluminum conductors and interchangeable tap-off units up to 1250A.

## Number of Internal Bars of XCP-S and XCP-HP

| RATED CURRENT | 630A | 800A | 1000A | 1250A | 1600A | 2000A | 2500A | 3200A | 4000A | 5000A | 6300A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| XCP-S Aluminum | SINGLE BAR configuration | | | | | | DOUBLE BAR configuration | | | * | |
| XCP-S Copper | | SINGLE BAR configuration | | | | | DOUBLE BAR configuration | | | | * |

| RATED CURRENT | 630A | 800A | 1000A | 1250A | 1600A | 2000A | 2500A | 3200A | 4000A | 5000A | 6300A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| XCP-HP Aluminum | SINGLE BAR configuration | | | | | | DOUBLE BAR configuration | | | * | |
| XCP-HP Copper | | SINGLE BAR configuration | | | | | | DOUBLE BAR configuration | | | * |

*Triple bar

### XCP-S Al (4 Conductors)

| 3P+N+PE | | SINGLE BAR | | | | | | DOUBLE BAR | | | TRIPLE BAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rated current** | **In [A]** | **630** | **800** | **1000** | **1250** | **1600** | **2000** | **2500** | **3200** | **4000** | **5000** |
| Overall dimension of the busbars | L x H [mm] | 120 x 130 | 120 x 130 | 120 x 130 | 120 x 170 | 120 x 200 | 120 x 220 | 120 x 380 | 120 x 440 | 120 x 480 | 120 x 590 |
| Rated operational voltage | Ue [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated insulation voltage | Ui [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Frequency | f [Hz] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated short-time current (1 s) | Icw [kA]$_{rms}$ | 25*** | 25*** | 36 | 42 | 42 | 80 | 80 | 95 | 120 | 120 |

* Fully rated at ambient temperature of 35 deg. C

### XCP-S CU (4 Conductors)

| 3P+N+PE | | SINGLE BAR | | | | | DOUBLE BAR | | | | TRIPLE BAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rated current** | **In [A]** | **800** | **1000** | **1250** | **1600** | **2000** | **2500** | **3200** | **4000** | **5000** | **6300** |
| Overall dimension of the busbars | L x H [mm] | 120 x 130 | 120 x 130 | 120 x 130 | 120 x 170 | 120 x 200 | 120 x 300 | 120 x 380 | 120 x 440 | 120 x 480 | 120 x 590 |
| Rated operational voltage | Ue [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated insulation voltage | Ui [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Frequency | f [Hz] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated short-time current (1 s) | Icw [kA]$_{rms}$ | 33 | 40 | 55 | 70 | 75 | 75 | 130 | 150 | 150 | 150 |

* Fully rated at ambient temperature of 35 deg. C

### XCP-HP Al (4 Conductors)

| 3P+N+PE | | SINGLE BAR | | | | | | DOUBLE BAR | | | TRIPLE BAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rated current** | **In [A]** | **630** | **800** | **1000** | **1250** | **1600** | **2000** | **2500** | **3200** | **4000** | **5000** |
| Overall dimension of the busbars | L x H [mm] | 125 x 130 | 125 x 130 | 125 x 130 | 125 x 130 | 125 x 200 | 125 x 220 | 125 x 380 | 125 x 440 | 125 x 480 | 125 x 740 |
| Rated operational voltage | Ue [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated insulation voltage | Ui [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Frequency | f [Hz] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated short-time current (1 s) | Icw [kA]$_{rms}$ | 36 | 36 | 50 | 70 | 70 | 85 | 120 | 120 | 150 | 150 |

* Fully rated at ambient temperature of 50 deg. C

### XCP-HP CU (4 Conductors)

| 3P+N+PE | | SINGLE BAR | | | | | | DOUBLE BAR | | | TRIPLE BAR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rated current** | **In [A]** | **800** | **1000** | **1250** | **1600** | **2000** | **2500** | **3200** | **4000** | **5000** | **6300** |
| Overall dimension of the busbars | L x H [mm] | 125 x 130 | 125 x 130 | 125 x 130 | 125 x 170 | 125 x 170 | 125 x 220 | 125 x 380 | 125 x 440 | 125 x 480 | 125 x 680 |
| Rated operational voltage | Ue [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated insulation voltage | Ui [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Frequency | f [Hz] | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Rated short-time current (1 s) | Icw [kA]$_{rms}$ | 36 | 50 | 70 | 70 | 85 | 120 | 120 | 150 | 150 | 150 |

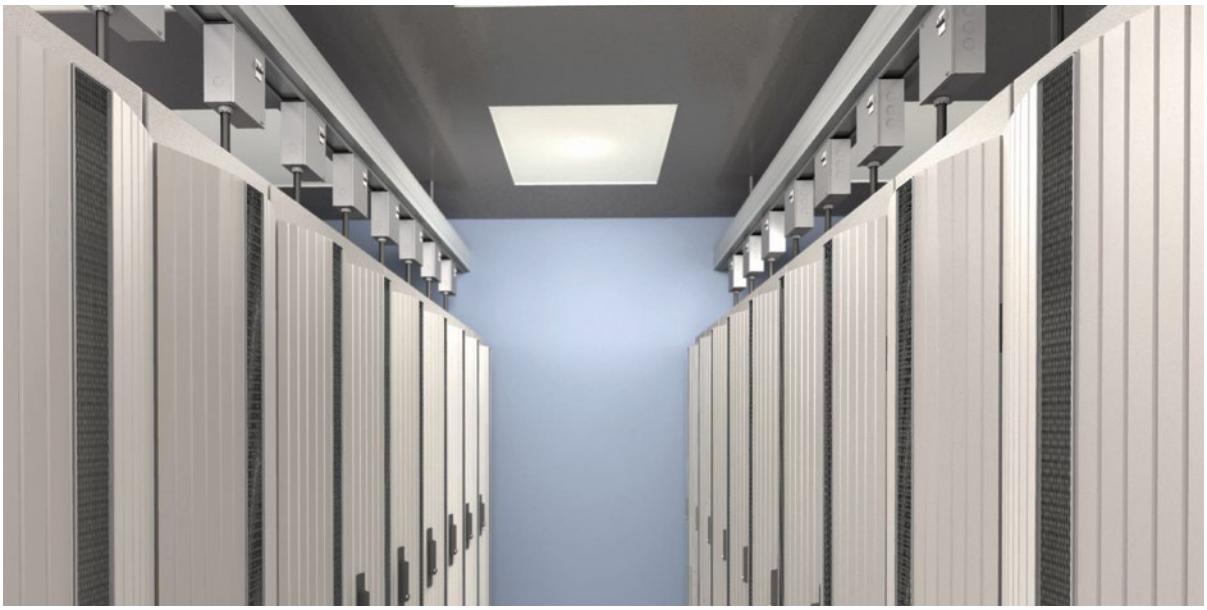
* Fully rated at ambient temperature of 55 deg. C

# STARLINE
# TRACK BUSWAY


# Distributing power. Removing limitations.

We've built a better way to provide power to any mission-critical, industrial, retail, or lab environment. With Starline Track Busway, easy installation means faster expansions and additions, plus a lower cost of ownership. Our flexible and scalable busway system allows you to relocate power anywhere you need anytime without shutting down power.

The unique turn-n-lock connection method used for the plug-in units is the key to our busway's reliability. By inserting the plug head anywhere along the busway and rotating it 90 degrees, you get a constant, locked-in, reliable connection — eliminating power interruptions caused by overheating or loss of connections.



## BENEFITS

### Reduced Facility Construction Costs

- Labor savings mean installation is less expensive
- Eliminates costly changes and outside labor costs for electrical specialists

### Faster Installation

- Building projects are up and running faster
- Add, remove or relocate power easily and quickly with no downtime

### Flexibility for the Future

- Plug-in units can be disconnected and connected without de-energizing the busway
- Requires no routine maintenance

### Adaptable

- Fewer installation materials
- Busway and outlets are reusable and relocatable

### More Choices

- Scalable and customizable lengths, sizes and configurations to meet your unique specifications

## APPLICATIONS

### Data Centers/Mission-Critical

Mission-critical facilities can't afford costly downtimes when expansion is needed. This makes Starline an ideal choice for their power needs.

### Retail

Starline has years of experience providing power for the fast-moving retail environment. And Starline allows for lighting and power to be connected in the same housing.

### Industrial

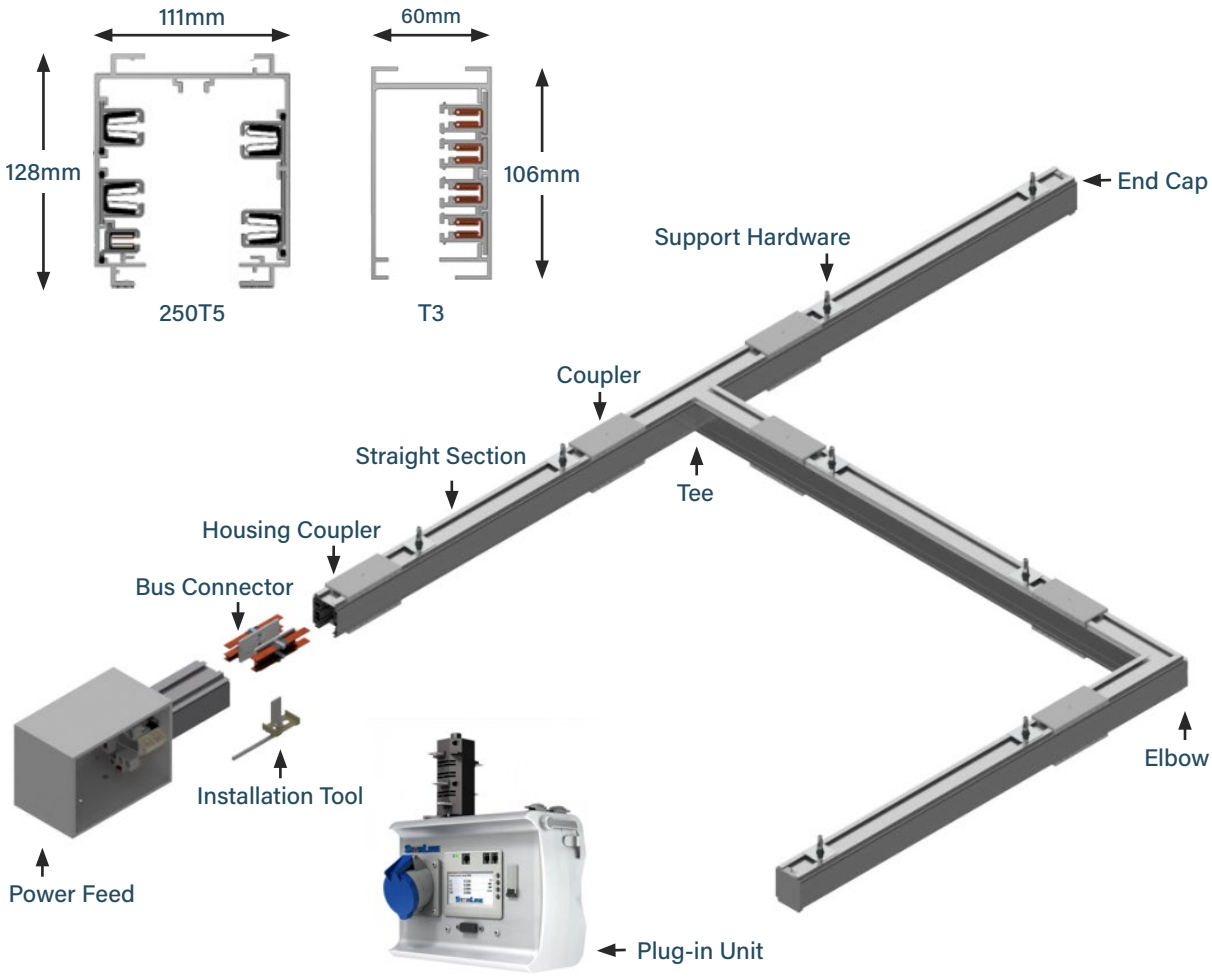
Auto, high-tech assembly, and contract manufacturing companies demand a power distribution system capable of providing high-density plug-in availability.

### Universities and Labs

Flexibility, adaptability, lower costs and sustainability are just a few reasons why Starline is the preferred power choice for universities and labs.

## BUSWAY SYSTEMS

Our most powerful and productive systems feature 250, 400, 630, 800, 1000, and 1250 amps. T5 units can fit any of these busways so that your investment is protected as your power needs change.




| SYSTEM | AMPS | VOLTS | OPTIONAL DOUBLE NEUTRAL | OPTIONAL FUNCTIONAL EARTH | SIZE |
|---|---|---|---|---|---|
| 160T3 | 160 | 415 | Yes | Yes | 106mm x 60mm |
| 225T3 | 225 | 415 | No | No | 106mm x 60mm |
| 250T5 | 250 | 415 | Yes | Yes | 128mm x 111mm |
| 400T5 | 400 | 415 | Yes | Yes | 128mm x 147mm |
| 630T5 | 630 | 415 | No | Yes | 128mm x 163mm |
| 800T5 | 800 | 415 | No | Yes | 128mm x 163mm |
| 1000T5 | 1000 | 415 | No | Yes | 220mm x 129mm |
| 1250T5 | 1250 | 415 | No | Yes | 220mm x 129mm |

Starline Track Busway is the simple, versatile, fast, and economical solution for supplying power to electrical loads. And our cutting-edge engineering gives you the unique ability to instantly tap into the busway at any location with various plug-in units.

# STARLINE
# PLUG-IN RACEWAY

# Next generation raceway for today's power needs.

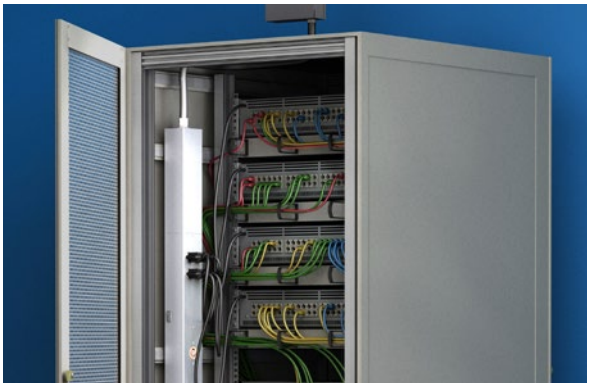
Starline Plug-In Raceway meets the ever-changing power distribution, and datacom needs of healthcare, education, industrial, data center and retail applications.

Though it may look like other raceway products, Starline Plug-In Raceway has the fastest install times in the industry. It also has the unique ability to add or relocate plug-in modules anywhere on the raceway quickly and easily, even after installation.

When changing or repositioning power receptacles, you simply snap the pre-assembled plug-in modules on the raceway backplane. The power connection is made automatically without having to interrupt power.

## FEATURES

- Safe finger-proof design allows end-users to add plug-in modules without cutting power
- Low installation costs due to its patented pre-wired bus-type raceway design
- Flexible design permits receptacle plug-in modules to be added or relocated anywhere on the raceway quickly and easily
- Breaker and non-breaker single-phase and three-phase plug-in modules (up to 30 amps)
- Power feeds, elbows, and metering options available
- Datacom channel for data, video, and audio applications available
- Custom color and finishes are available



## APPLICATIONS

### Science & Technology
Ideal for hospitals, pharmacies, and research and development. Designed to provide flexibility and reliability, the raceway helps facilities run at full efficiency.

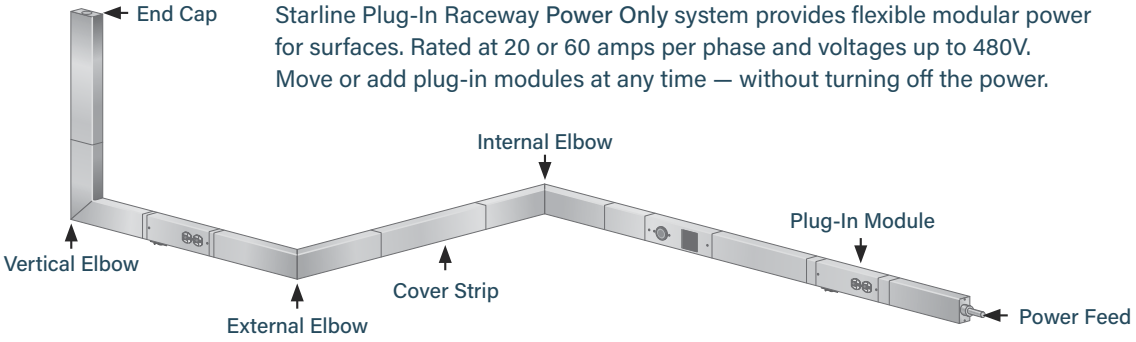
### Education
For use in next generation classrooms, labs, research, science, and engineering spaces.

### Data Center
For higher density server cabinets, multiple types of receptacles, and future flexibility.

### Industrial
Efficient and economical solution for supplying power and expanding operations quickly.

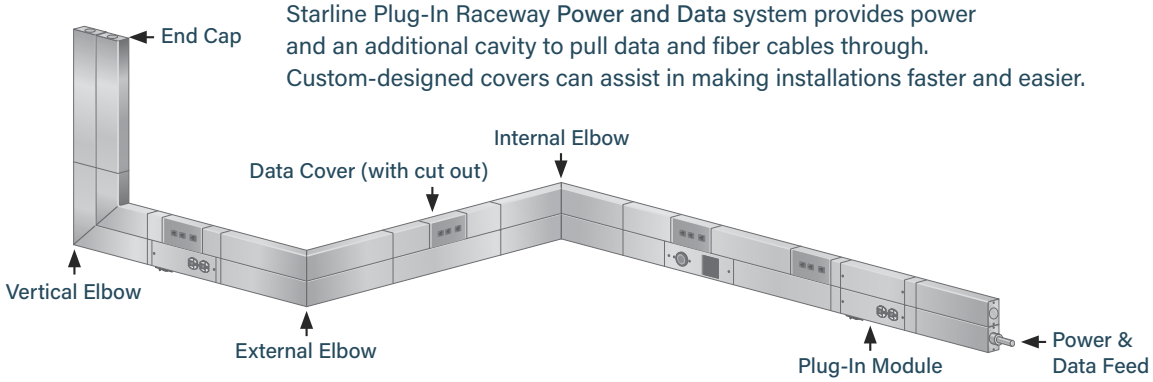
### Retail
Ideal in fitness and fast-paced retail environments using modules that are easy to install and no electrician needed to add power.

## POWER ONLY



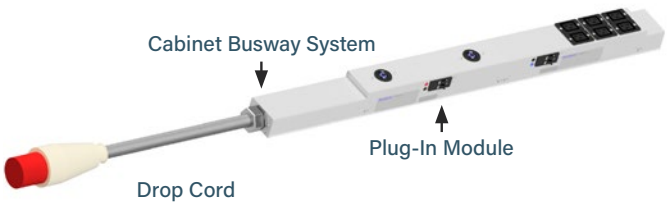

Starline Plug-In Raceway **Power Only** system provides flexible modular power for surfaces. Rated at 20 or 60 amps per phase and voltages up to 480V. Move or add plug-in modules at any time — without turning off the power.

## POWER AND DATA




Starline Plug-In Raceway **Power and Data** system provides power and an additional cavity to pull data and fiber cables through. Custom-designed covers can assist in making installations faster and easier.

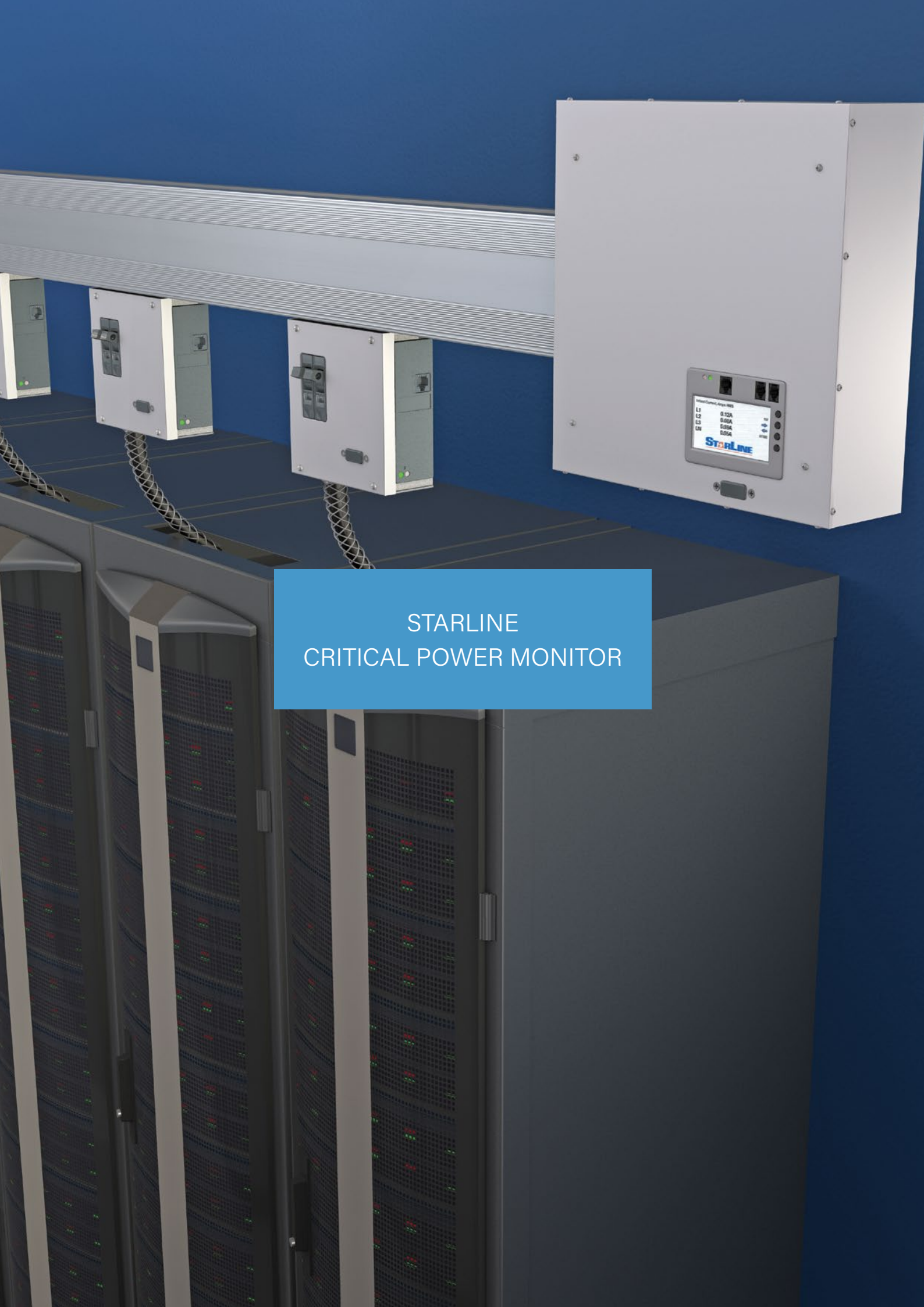
## CABINET BUSWAY SERIES




**Cabinet Busway** is a pre-assembled system ideal for server cabinets and industrial workbench applications. Utilizing the Plug-In Raceway components creates an excellent configuration for applications that require higher power density, multiple types of receptacles and future flexibility.

## PLUG-IN MODULES

**Plug-in Modules** are universal for the Plug-In Raceway systems above. Modules can be easily moved or added, and receptacle combinations can be mixed and matched to create the most efficient design possible.



# STARLINE
# CRITICAL POWER MONITOR

# Real Time Monitoring for Peak Efficiency

With the market's growing need for energy efficiency, energy monitoring systems are more vital than ever. The Starline Critical Power Monitor (CPM) offers an enhanced monitoring package that will allow you to monitor, integrate and display more power information quickly and reliably.

The Starline CPM creates value for power distribution systems by providing the critical information to optimize management and efficiency.


## FEATURES

- Revenue grade metering functionality
- Monitoring of multi-circuit configurations
- End feed and branch circuit models
- Display and non-display versions
- Standard integral web pages to easily configure meter attributes and view data
- Wired Ethernet and serial communications are standard, optional 802.11n Wi-Fi connectivity
- Ability to use both Serial and Ethernet protocols simultaneously
- Telnet, SNMP, Modbus TCP/IP, BACnet TCP, http/https and Modbus RTU are also standard protocols
- Available with daisy-chain Ethernet
- Uniquely designed to provide the functionality needed for monitoring any facility's power use
- Optional temperature monitoring
- Both Vac and DC versions are available

## APPLICATIONS

**Data Centers/Mission-Critical**
Starline CPM provides actionable energy management information for mission-critical environments.

**Industrial**
Due to its application-specific configurations, Starline CPM enables customized power monitoring solutions required to maximize efficiency.

**Submetering**
Whether new installation or retrofit, Starline CPM provides revenue grade metering functionality to support a wide range of circuit configurations and ratings.

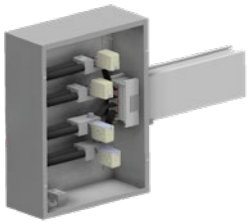
## PRODUCTS

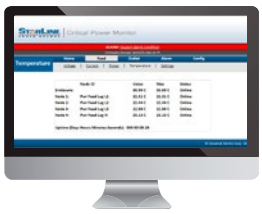
**Track Busway CPM**
Designed to provide the functionality required for both end feed and branch circuit applications.

**Standalone CPM**
Mounts easily to electrical panels and enclosures using a standard knockout.

Starline Critical Power Monitor is calibrated to meet ANSI Revenue Grade Standards for power usage, and various communications interfaces facilitate seamless integration with BMS and DCIM packages. Monitors are factory-built into Starline power feeds and plug-ins, providing a clean and seamless monitoring integration with power distribution.

| CPM TEMPERATURE MONITOR |
|---|
| Compatible with 100/160, 225, 250, 400, 630, 800, 1000 & 1250 amp Starline Track Busway systems |
| Eliminates need to periodically IR scan |
| Provides end feed temperature data in real-time (4 lugs and internal enclosure temperature) |
| Data available for end-user analysis via webpage |





| MEASURED PARAMETERS | ACCURACY |
|---|---|
| Voltage L-N | 0.5 % of Reading |
| Voltage L-L | 0.5 % of Reading |
| Current | 0.5 % of Reading |
| +/- Watts | ANSI 12.20 Class 0.5 |
| +/- Wh | ANSI 12.20 Class 0.5 |
| +/- VARs | ANSI 12.20 Class 0.5 |
| VA | ANSI 12.20 Class 0.5 |
| Power Factor | 1.0 % of Reading |
| Frequency | +/-0.1 Hz |

| MEASURED VALUES | REAL-TIME | /PHASE | TOTAL | AVERAGE | MAX | MIN |
|---|---|---|---|---|---|---|
| Feed Voltage L-N | ● | ● | | ● | | |
| Feed Voltage L-L | ● | ● | | ● | ● | ● |
| Feed Line Currents* | ● | ● | | ● | ● | ● |
| Feed Line Demand | | ● | ● | | ● | |
| Feed Watts | ● | ● | ● | | ● | |
| Feed Watts Demand | | | ● | | ● | |
| Feed +/- VAR | ● | ● | ● | | | |
| Feed VAR Demand | | | ● | | ● | |
| Feed VA | ● | ● | ● | | | |
| Feed VA Demand | | | ● | | ● | |
| Feed Watt-hour | ● | ● | ● | | | |
| Feed Power Factor | ● | ● | ● | | | |
| Outlet Line Currents | ● | ● | | | ● | ● |
| Outlet Line Demand | | ● | ● | | ● | |
| Outlet Watts | ● | | ● | | ● | |
| Outlet VAR | ● | | ● | | | |
| Outlet VA | ● | | ● | | | |
| Outlet Watt-hour | ● | | ● | | | |
| Outlet +/- Power Factor | ● | | ● | | | |
| Frequency | ● | | | | | |

*Measured Feed Neutral Current is optional

Starline, a brand of Legrand, has been a leader in power distribution since 1924. The company's founders led the way for many new technologies in the power distribution equipment industry. Today, Starline continues to pave the way for safer, more innovative and more reliable electrical power distribution systems. Visit StarlinePower.com to learn more about our flexible power solutions.

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