



HIGH-POWER SOLUTIONS BROCHURE

POWERING THE NEXT GENERATION OF AI INFRASTRUCTURE

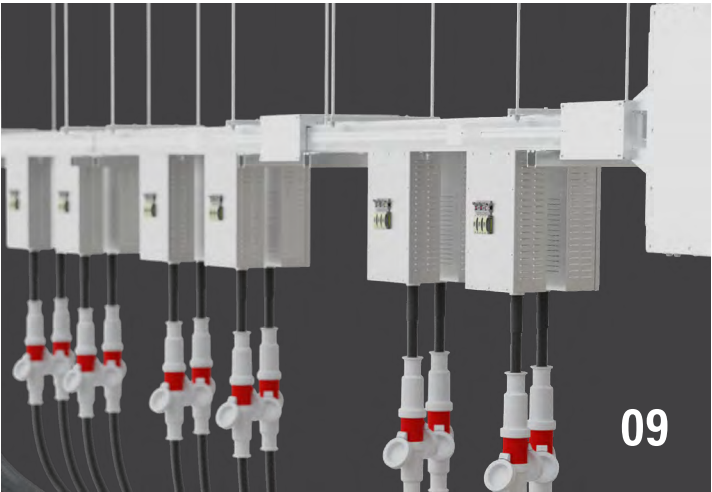
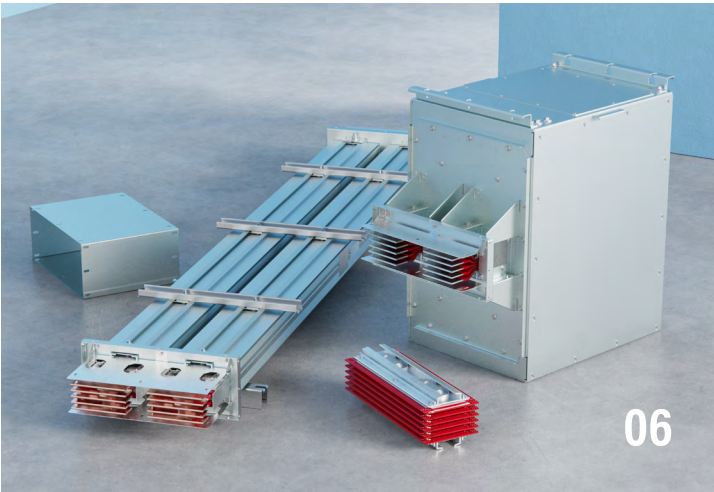
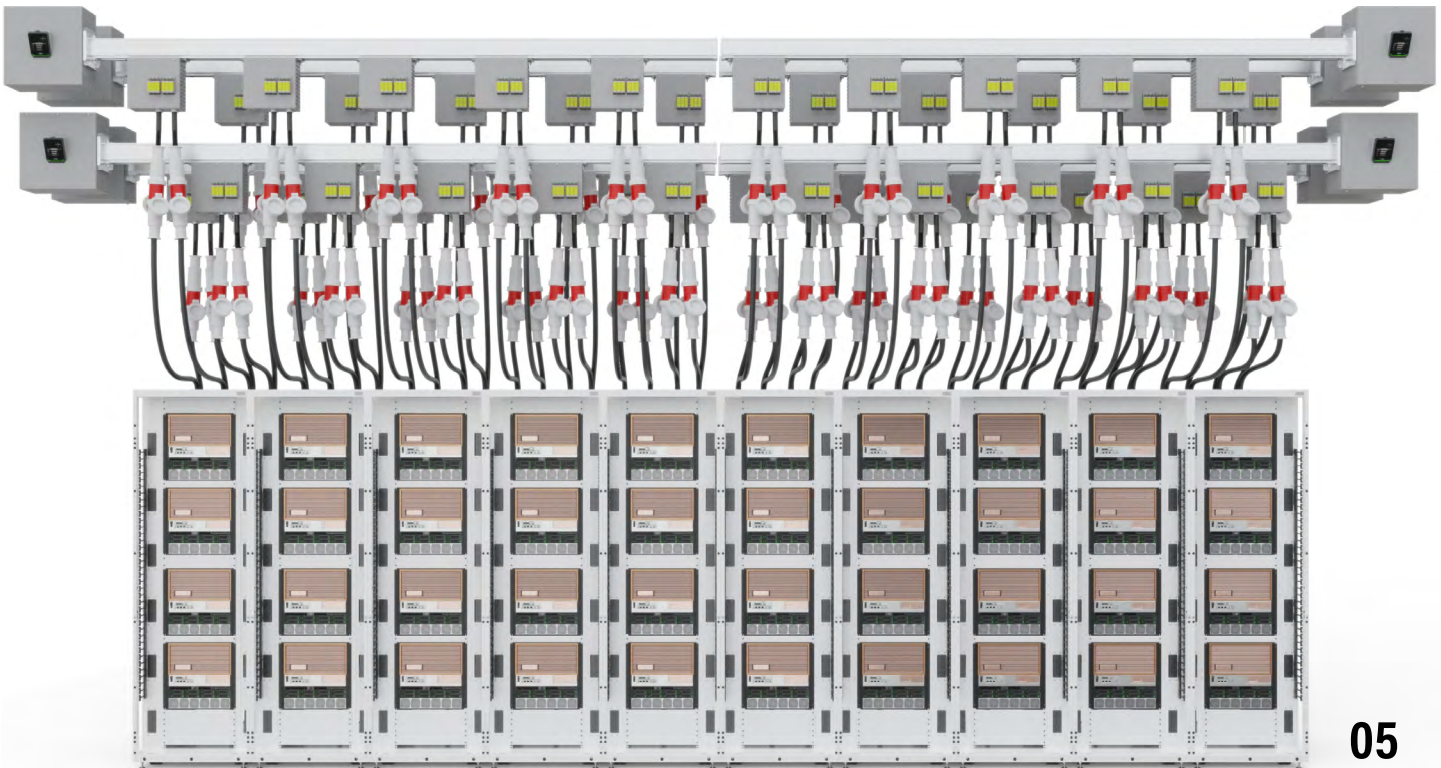
Starline®
A brand of **legrand**

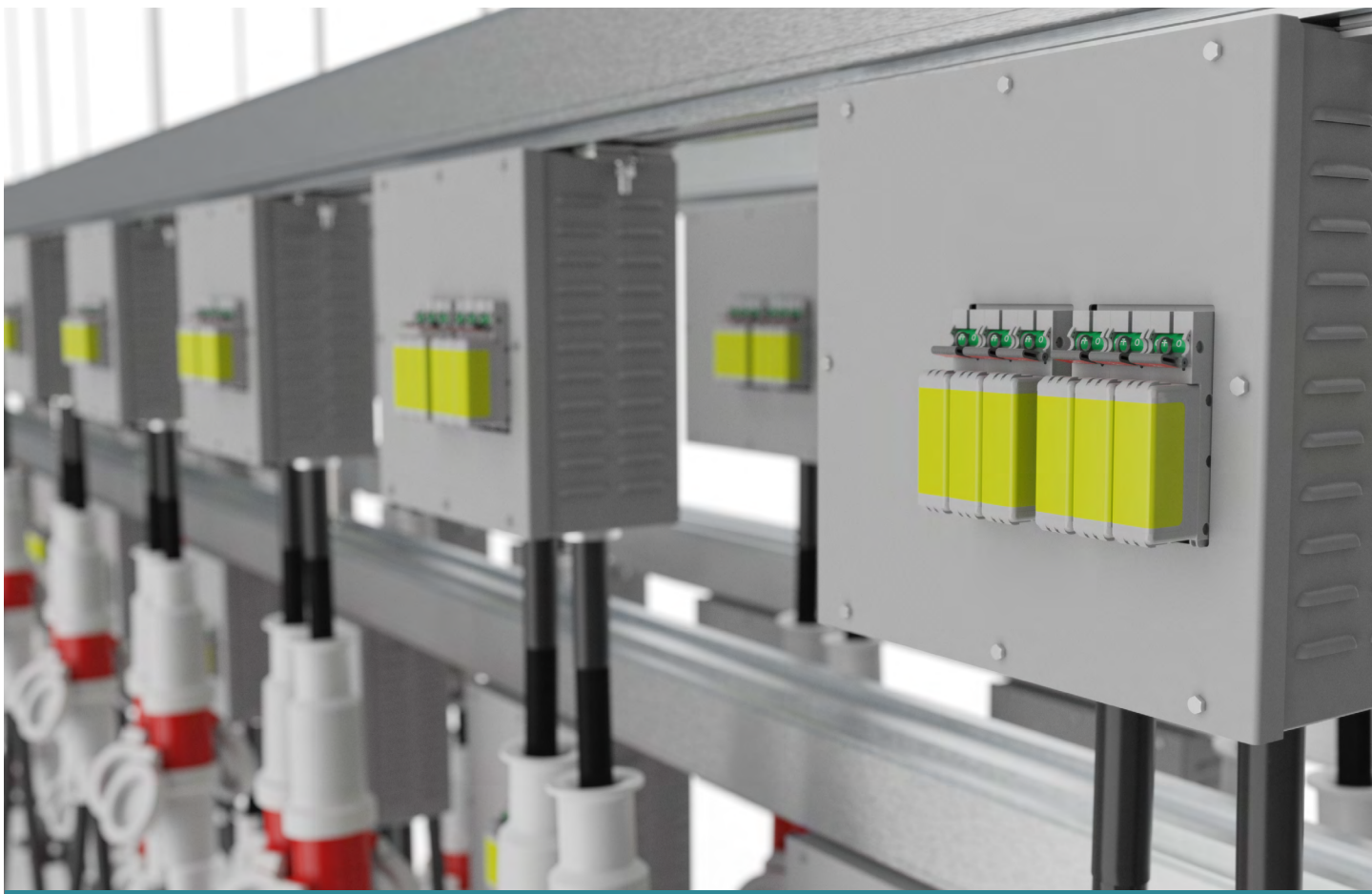
REVISION REGISTER

Version	Details of Update	Date
1	Original document creation	08/26

TABLE OF CONTENTS

THE STARLINE ADVANTAGE	4
INDUSTRY CHALLENGE.....	4
INTRODUCING THE PORTFOLIO	5
T5 DOUBLEBAR: HIGH-CAPACITY OPEN-CHANNEL BUSWAY	6
SYSTEM COMPONENTS	7
HIGH-CAPACITY PLUG-IN UNIT (HCP)	8
SOLUTION MATRIX	9
APPLICATION: AI DATA CENTERS	9





The Starline Advantage

For decades, Starline has pioneered flexible overhead power distribution solutions trusted by leading organizations worldwide.

- **Proven Experience:** Trusted power distribution expertise.
- **Flexible Architecture:** Scalable designs that evolve with facility needs.
- **Global Support:** Engineering and application expertise worldwide.
- **Innovative Solutions:** designed for emerging high-density applications.

Industry Challenge

AI IS REWRITING THE RULES OF RACK POWER

Traditional power distribution strategies weren't designed for today's AI workloads. As rack densities increase and power requirements continue to grow, facilities must deploy infrastructure that enables:

- Higher rack power capacity
- Faster deployments
- Greater flexibility for future expansion
- Improved space utilization
- Reduced operational disruption

The challenge is clear: deliver dramatically more power, in the same footprint, with the flexibility to scale. That's exactly what the Starline High-Power Portfolio was built to do.



T5 DoubleBar

**High-Capacity
Plug-In Unit (HCP)**

INTRODUCING THE PORTFOLIO

One High-Power Ecosystem

The Starline High-Power Solutions Portfolio combines scalable busway infrastructure with advanced plug-in technology to deliver flexible, high-capacity power distribution from overhead busway to rack-level delivery.

T5 DoubleBar & High-Capacity Plug-In Unit (HCP)

As rack densities continue to increase, data center operators require scalable power distribution infrastructure capable of supporting evolving compute demands. The Starline High-Power Portfolio combines the flexibility of DoubleBar, a T5 multi-line open channel busway, with the enhanced power delivery capabilities of the High-Capacity Plug-In Unit (HCP). Together, they deliver 2000A of power in a single end-to-end solution engineered for 100 kW+ racks, without adding complexity or sacrificing the open-channel flexibility of the Starline T5 busway.

T5 DOUBLEBAR: HIGH-CAPACITY OPEN-CHANNEL BUSWAY

The T5 DoubleBar 2000A is engineered to support the extreme power demands of AI-driven environments. Designed for high-density loads, it delivers reliable, low-loss power using hybrid copper and aluminum busbars that help data centers scale compute safely, efficiently, and with confidence.

TECHNICAL ENABLERS:

- **Optimized double-bar architecture:** Parallel conductor paths increase current-carrying capacity and available plug-in locations without expanding the system footprint.
- **Space-efficient, high-amperage platform:** Delivers busduct-level power density while maintaining Starline’s T5 open-channel flexibility.
- **Enhanced conductor interface performance:** Silver-plated adapter blades minimize electrical resistance and support improved thermal efficiency.
- **Engineered for High-Capacity Plug-In (HCP) integration:** Enables greater deployment of high-capacity plug-ins along the busway while maintaining system performance.
- **Validated under demanding operating conditions:** Verified through short-circuit and thermal performance testing and optimized for cyclic power loading applications.
- **Flexible, scalable design:** Modular construction accommodates multiple current ratings without requiring a redesign of the overall system.
- **Full T5 ecosystem compatibility:** Preserves open-channel access for plug-in units and supports compatibility across the complete T5 plug-in portfolio.

MORE ACCESS TO POWER WHERE IT MATTERS

Unlike traditional high-amperage busway systems with limited connection points, T5 DoubleBar provides increased opportunities for power access throughout the distribution run.

Feature	Benefit
AI Rack Power Support	Delivers 2000A and supports 100 kW+ rack loads with a single busway system
High Power Density	Delivers more power per linear foot with less physical infrastructure
HCP Optimization	Enables higher HCP deployment as rack densities increase
Thermal Performance	Designed for continuous and cyclic AI workloads
Future-Ready Scalability	Supports next-generation power demands up to 1000 VDC
Enhanced Flexibility	Higher density with greater modularity than traditional busduct



SYSTEM COMPONENTS

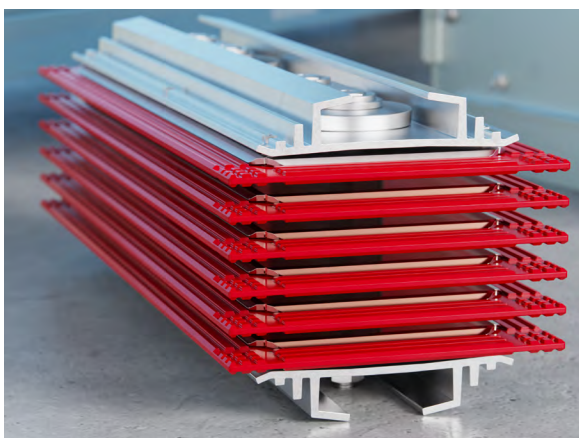
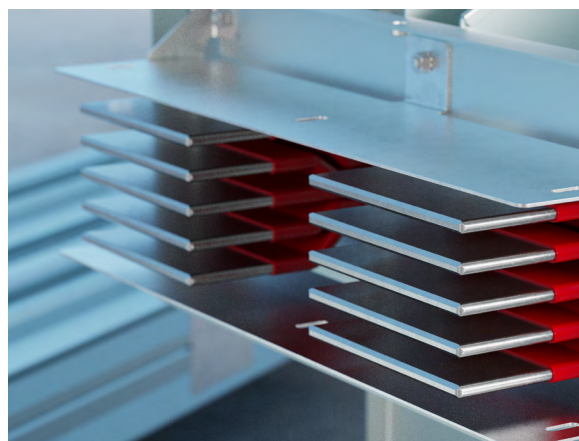


STRAIGHTS

The T5 DoubleBar straight sections are designed to support high-density power distribution in data center and mission-critical environments. Utilizing a parallel conductor architecture, DoubleBar increases available amperage and plug-in capacity while maintaining the flexibility of Starline's open-channel T5 platform. The system supports power distribution up to 2000A, enabling deployment of high-density AI and HPC loads. The modular design simplifies installation and provides scalability for future growth.

END FEEDS

DoubleBar end feed sections provide the connection between incoming facility power and the T5 DoubleBar system. Available in multiple configurations, including standard, low-profile, offset, and flange-mounted designs, end feeds support high-capacity power delivery while maintaining consistent system performance and reliability. Optional monitoring and maintenance-enhancing accessories are available to improve visibility and operational efficiency.



MONOBLOC JOINTS

Monobloc Joints provide secure, low-resistance connections between T5 DoubleBar sections. Engineered to maintain electrical continuity across the system, the joint design supports the high current requirements of DoubleBar while enabling efficient installation and long-term reliability. The integrated connection system is designed to minimize maintenance requirements and preserve performance throughout the life of the installation, even in cyclic loading applications.

HIGH-CAPACITY PLUG-IN UNIT (HCP)

Deliver More Power in Less Space

The Starline High-Capacity Plug-In Unit (HCP) delivers high-amperage power directly from T5 Track Busway systems to high-density loads, enabling greater rack power density in a compact footprint while maintaining scalability and deployment flexibility.

FEATURED CAPABILITIES:

- Supports up to 250A today.
- Designed for high-density data centers, AI infrastructure, HPC, and industrial applications.
- Delivers more power through a single plug-in, reducing the need for multiple lower-amperage units.
- Fully compatible with T5 Track Busway systems.
- Available in drop cord and OCPD-only configurations.
- UL compliant and rated up to 600V AC.

WHY IT MATTERS:

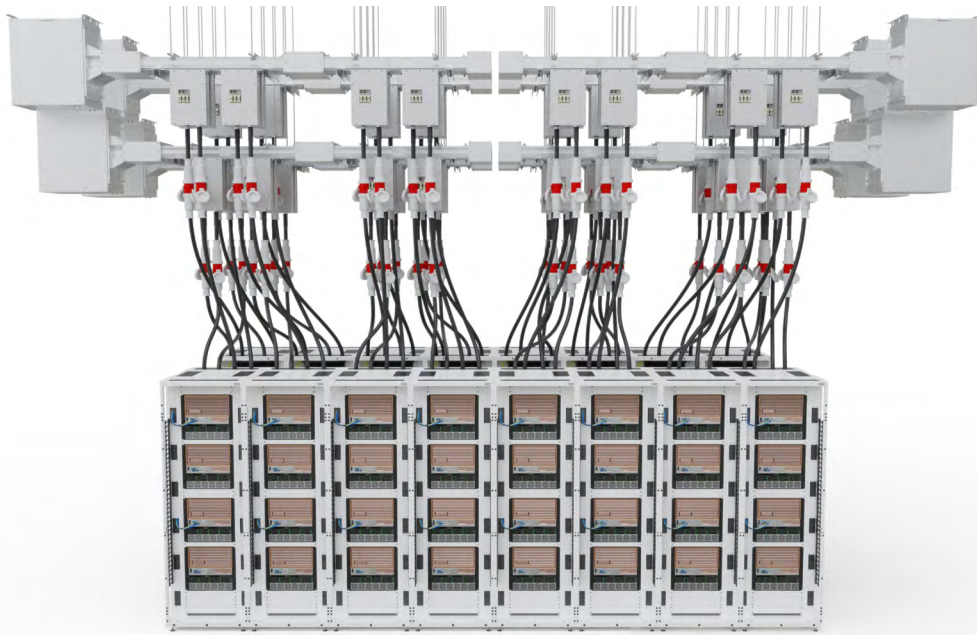
- **Increase rack power potential:** Support next-generation computing environments.
- **Maintain flexibility:** Deploy power where needed without major infrastructure modifications.
- **Enable scalability:** Adapt infrastructure as power demands evolve.
- **Better together a complete high-power solution:** T5 DoubleBar provides scalable overhead distribution while HCP delivers power to high-density loads.

Infrastructure Advantages	Operational Impact
Up to 250A high-capacity plug-in	Supports higher-density loads from a single plug-in
High-ampacity multi-circuit architecture	Accommodates increasing rack power requirements
Above-rack optimized enclosure	Preserves valuable overhead space
Type 1 (horizontal) and Type 2 (vertical) enclosure options	Flexible deployment based on application needs
Optimized copper conductors	Maximizes ampacity and thermal performance
T5 ecosystem compatibility	Integrates into existing installations without redesign
Compact footprint	Enables higher rack density without sacrificing space



SOLUTION MATRIX

Requirement	T5 DoubleBar	HCP
High-capacity distribution	✓	✓
Flexible access points	✓	
Rack-level delivery		✓
Scalability	✓	✓
Future AI readiness	✓	✓



APPLICATION: AI DATA CENTERS

Built for AI Infrastructure

AI clusters require power distribution infrastructure capable of supporting rapidly increasing rack densities while preserving deployment flexibility.

EVOLVING INFRASTRUCTURE DEMANDS:

- Increased rack power demand
- Future capacity planning
- Expansion flexibility
- Deployment speed

BUILT FOR:

- **Hyperscale:** Large-scale, rapidly expanding facilities
- **Colocation:** Flexible tenant power allocation
- **Enterprise AI:** High-performance computing deployments
- **Research & HPC:** Advanced compute environments

POWER WHAT'S NEXT

Starline High-Power Solutions help data centers build for tomorrow's requirements without sacrificing flexibility today.

To learn more visit
starlinepower.com

©2026, Legrand. All rights reserved. The industry-leading brands of Approved Networks, Kratos Industries, Ortronics, Raritan, Server Technology, Starline, and ZPE Systems empower Legrand's Power & Thermal Management division to produce innovative power, cooling, connectivity and management solutions for data center white space and gray space, building networks, and facility infrastructures. Our division designs, manufactures, and markets world-class products for a more efficient and sustainable future. The exceptional reliability of our technologies results from decades of proven performance and a dedication to research and development. LIT# V2442

Starline Holdings, LLC
724.597.7800
starlinepower.com

Starline[®]
A brand of  **legrand**[®]