

The background of the advertisement features a low-angle, upward-looking perspective of several modern skyscrapers with glass facades. The sky is a clear, bright blue. In the foreground, a dark, curved architectural element, possibly a roof or a large overhang, is visible. The Siemens logo is positioned in the top left corner within a white rectangular box.

SIEMENS

Totally Integrated Power – SIVACON 8PS

Economical power supply for high-rise buildings

LI, BD2 and BD01 busbar trunking systems

[siemens.com/busbar](https://www.siemens.com/busbar)



Totally Integrated Power (TIP)

A reliable, highly available, and flexible power supply for industries as well as buildings and facilities provides the basis for both industrial processes and infrastructure solutions.

Siemens' solution is Totally Integrated Power (TIP), our comprehensive power supply portfolio of software and hardware products, holistic systems for all voltage levels, as well as energy management solutions. TIP is closely linked to industrial and building automation systems and is integrated into enterprise IT systems. This allows to fully exploit all the optimization potential of an integrated solution. TIP meets even the toughest requirements of supply-critical assets. An extensive support throughout the entire lifecycle starting with planning up to services completes our offering.

TIP is also moving into high-rise buildings – with the SIVACON 8PS busbar trunking systems

As growing numbers of people move to large cities, urbanization is a global trend. One impact of this is a growing shortage of space in urban areas, which in turn is driving new buildings to rise higher and higher. Space must be saved wherever possible, including inside these buildings. This is where the LI, BD2 and BD01 busbar trunking systems from our SIVACON 8PS product family are exactly the right solution. Not only do they take up very little space, but they can be moved easily and quickly, and are always a perfect fit. They're also economical and, above all, safe. They support state-of-the-art power distribution in high-rise buildings.



SIVACON 8PS
busbar trunking systems:
for safe power flows

SIVACON 8PS busbar trunking systems

Intelligent power supply in state-of-the-art
high-rise buildings

Wherever the SIVACON 8PS takes up residence, the landlord's worries are over. That's because this "tenant" has only the very best characteristics offering benefits.

Highly flexible with minimal space requirements

SIVACON 8PS busbar trunking systems are used as power distribution boards for both entire riser shafts and individual floors. They use very little space and can easily adapt to changes in power distribution, even years later. Busbar trunking systems also compare very favorably to cables thanks to their low-voltage drop.

Safe and reliable even in a fire

Their fire safety is tested to European fire protection standards and ensures either 90 or 120 minutes of fire isolation in the fire-containment sections, depending on the fire protection class. This allows access for rescue and extinguishing during critical periods. Design verification to standard IEC 61439-1/-6, a low fire load,

and tested fire barriers all provide extra safety. In addition, the busbar trunking systems permit implementation of a redundant power supply system and so ensure an uninterruptible power supply (UPS) for safety or security systems.

State-of-the-art power supply for transparent energy flows

A great feature of this "tenant" is its transparent recording of consumer and energy data. Integrated communications-capable measuring and switching devices allow future-proof integration in company-wide energy management systems in compliance with the ISO 50001 standard – resulting in high infrastructural efficiency.

SIVACON 8PS Benefits at a glance

Economic advantages

- Improved ability to plan reliably
- Economical installation
- Efficient, end-to-end power distribution
- Energy transparency thanks to communications-capable measuring and switching devices

System and operational safety

- Design verified low-voltage busbar trunking systems and connections to the SIVACON S8 switchboard
- Low fire load

Reliability

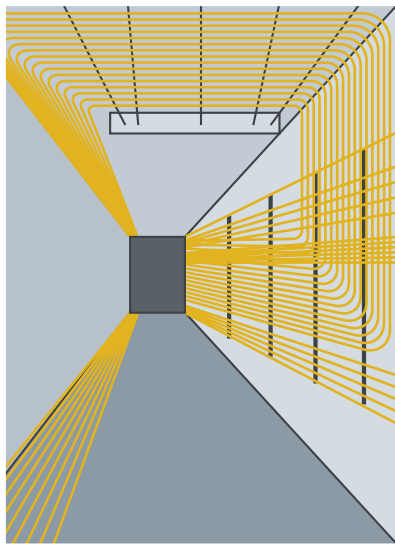
- High short-circuit rating
- High degree of protection

Innovation

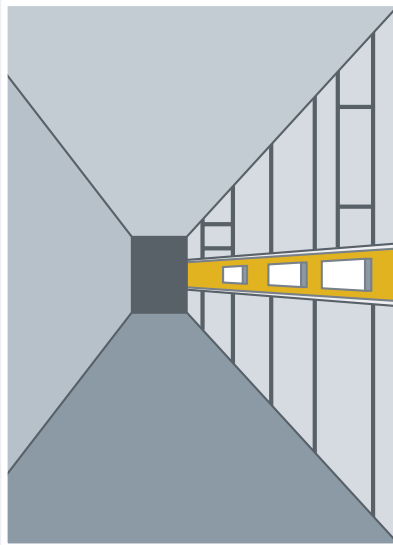
- A safe and reliable, compact and flexible solution compared to cables

One-stop shop

- A TIP solution developed by specialists offering perfectly coordinated components from a single source from planning via installation to operation



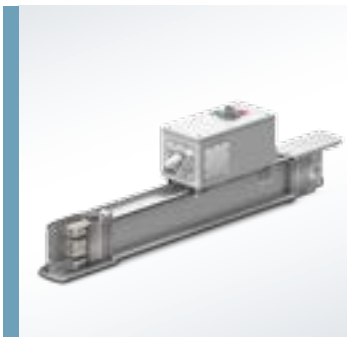
Cable installation



Busbar trunking system installation



Economical from the very first contact



LI system, 800 A to 6300 A

Want to avoid labor-intensive calculations? Complex and expensive installation work? High power losses? TIP gives you an end-to-end power distribution that is easy to plan and quick to install. What's more, adjustments and expansions can be made at any time if there are changes in how the space is used. And the installed communications-capable measuring and switching devices enable integration into energy management systems.

Enhanced planning certainty

TIP provides everything needed for optimal support and a fast return on investment: for example, expert planning and sizing by our specialists for optimal dimensioning of power distribution. SIMARIS software tools support planning in compliance with IEC standards, and their intuitive user interfaces and functions are easy to operate.

Simple and rapid installation

With far fewer fastening points and substantially lighter components compared to cables, installation work is much easier and requires less time and effort. The individual busbar trunking systems are linked via maintenance-free connections. Even in buildings with only a few floors, this makes the system more economical than cabling.

Consistent and efficient throughout all building levels

The LI busbar trunking system transmits large amounts of power from 800 to 6,300 amperes, even across long distances or multiple stories. It is more compact than a cable system, and its sandwich design ensures a low voltage drop. The LI system is highly resilient at average ambient temperatures up to 40° C over 24 hours at full rated current. It also features an optional 200 percent neutral conductor cross-section that offers added reliability even in networks affected by harmonics loading.

The BD2 and BD01 systems distribute power to sub-distribution boards and end consumers on each floor, so it's easy to replace or move tap-off units if the space usage changes.



From left:
SIVACON 8PS:
a space-saving solution

SIVACON 8PS:
simple and reliable installation

LI System:
tap-off unit with measuring device

More power in less space

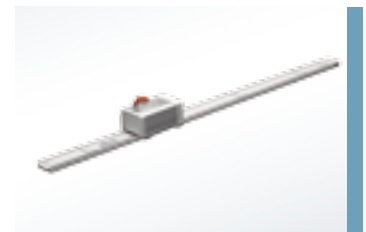
The SIVACON 8PS systems takes up little space, even when changes of direction are needed. You can configure them with right angles, which saves a great deal of space in electrical equipment rooms and riser shafts, while providing higher power density for electrical consumers. This also allows a range of redundancy plans to be developed and implemented to meet individual customer requirements.

Always know and control what is flowing where

The communications-capable measuring equipment in the tap-off units allows future-proof integration into company-wide energy management systems in compliance with ISO 50001. This ensures efficient operational management. The power flow is made transparent, and data can be represented and analyzed, all of which is hugely important in age when energy costs account for a steadily growing share of overall building operating costs.

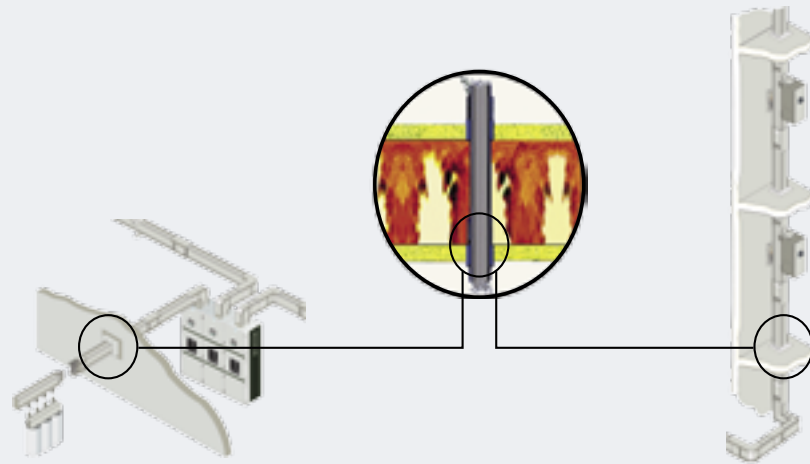


BD2 system, 160 A to 1250 A



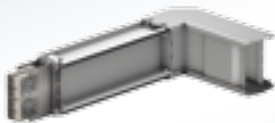
BD01 system, 40 A to 160 A

Built-in protection to ensure safe infrastructure



Fire protection-tested in accordance with the EN 1366-3 standard for safe and reliable installation in risers and electrical equipment rooms.

Reliably safe



LI system: standard elbow

SIVACON 8PS busbar trunking systems offer a high level of safety as design verified low-voltage switchgear and controlgear assemblies in compliance with IEC 61439-1/-6. Their low fire load and high short-circuit rating enhance the safety of people and buildings.

Design verified solutions

The SIVACON 8PS busbar trunking systems and the connections to SIVACON S8 switchboards are design verified low-voltage switchgear and controlgear assemblies that offer a safe electrical connection from loads to the transformers.

Infrastructure that's safe from fire

The LI system with appropriate housing enables implementation of an uninterruptible power supply (UPS) based on the E90 functional endurance class tested to DIN 4102-12 for 90 minutes. This ensures a backup power supply for safety-relevant systems during this period.

Fire barriers at the interfaces between floors will prevent fire from spreading for at least 90 or 120 minutes, depending on their classification. This means that stairwells and emergency exits will not be compromised by fire and smoke. These fire barriers are asbestos-free and tested in

accordance with EN1366-3 for fire resistance classes EI90 and EI120. The metal housing also means that these systems have a much lower fire load compared to cables.

High reliability and safety built-in at the factory

Something that needs to be manually installed in cabled systems is already built into the SIVACON 8PS at the factory: short-circuit rating – without lots of fastener elements and with much greater fastener spacing. The high degree of protection of IP55 (IP66 for power transmission) makes the LI system suitable for use even in humid or very dirty environments.

A strong alternative

SIVACON 8PS busbar trunking systems combine long-term cost effectiveness with a high level of safety – for power distribution in riser shafts as well as across individual floors.

Support

Time optimization with Siemens as your expert partner at your side

SIVACON 8PS busbar trunking systems on the Internet

Our website offers you a wide range of promotional and technical information as well as helpful tools for the SIVACON 8PS busbar trunking systems.

[siemens.com/busbar](https://www.siemens.com/busbar)



Convenient planning using SIMARIS tools

Planning of electrical power distribution for industrial plants, infrastructure and buildings is increasingly complex. Innovative SIMARIS software tools provide effective support for your planning process enabling you, the electrical designer, to work better and faster under the given conditions.

■ SIMARIS design

Dimensioning electricity networks and selecting components automatically

■ SIMARIS project

Calculating space requirements and budgeting for power distribution

■ SIMARIS sketch

Creating 3D line routing plans for the BD01, BD2, LD and LI busbar trunking systems

[siemens.com/simaris](https://www.siemens.com/simaris)

Technical documentation on the Internet

An up-to-the-minute overview of the available technical documentation on the SIVACON 8PS busbar trunking systems is available on the Internet at

[siemens.com/lowvoltage/product-support](https://www.siemens.com/lowvoltage/product-support)

Tender specifications

We offer you a comprehensive range of tender specification texts to assist at

[siemens.com/specifications](https://www.siemens.com/specifications)

Building on a sound foundation

Our training courses provide you with a solid foundation for your business success.

Experts provide the theoretical and practical knowledge you need for our SIVACON 8PS busbar trunking systems.

[siemens.com/lowvoltage/training](https://www.siemens.com/lowvoltage/training)

Reliable on-site support

Our local experts are there for you worldwide. They help you develop power supply solutions and offer you support with their specialist knowledge in project management and financial services, while always taking important aspects such as safety, logistics, and environmental protection into account.

For your TIP contacts, see [siemens.com/tip-cs](https://www.siemens.com/tip-cs)

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