Make the most of your Energy
Schneider Busway
From 20A to 6000A

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Schneider Busway, make the most of your energy!

Being a global specialist in energy management, Schneider Electric provides you the highest energy efficient, safest and most reliable busway system for power distribution.

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Schneider Busway, make the most of your energy!

- 70,000 kilometers busway installed worldwide
- IEC and UL full type tested for each and every rating
- KEMA-KEUR, ASTA Diamond, UL compliance
- Seismic zone 4 compliance
- Complete package solution
- Made by Schneider Electric
- Mylar® Insulation by DuPont
- 99.9% copper purity
- Bimetal technology
- Steel/Aluminum housing
- Continuous earth

70,000 Kilometers busway installed worldwide
- More than 300 plants connected, more than 70,000 kilometers of Schneider Busway has been installed around the world, Schneider busway is now on the second round of world tour!

Schneider Electric Presence in 100 countries
- Schneider Electric is present in more than 100 countries, providing your strong local support and quick response!

Made by Schneider Electric
- Schneider Electric’s products are manufactured in the same factories, they are made in Europe, America or Asia Pacific, and the product design and quality meet the exact same standards that Schneider Electric holds.

Integrated and complete solutions
- Schneider Electric’s comprehensive and integrated solutions and services across power segments, Schneider busway is part of the comprehensive offering of low and medium voltage electrical distribution systems (medium voltage switchboard, busway, etc.)
- Schneider Busway, with the most reliable and fully-automated electrical insulation with superior performance through full electrical, mechanical and communication capability.
According to IEC standard 60439-2:2008, there are 14 type tests for busway systems.

The 14 type tests include the verifications of:
- temperature rise (6.2.1)
- electrical impulse (6.2.2)
- short circuit withstand (6.3.1)
- the effect of the protective switch (5.2.4)
- overvoltage and long-term dimension (6.3.3)
- vibration testing (6.4.4)
- the degree of protection (6.2.7)
- UIC test (1.12)
- the resistance of insulating materials to abnormal heat and fire (6.3.4)
- short circuit impulse (6.2.9)
- crushing resistance (6.2.10)
- the mechanical properties of the busbar system (6.3.12)
- resistance to flame propagation (6.2.14)
- the resistance to building penetration (6.4.13)
Zone 4 Seismic compliance, Reliable system

Why Seismic compliance important for Busway?
There are many and more earthquakes all over the world, and people desire to take higher measures for the safety of building as well as electrical systems in the case of an earthquake. The seismic compliance can guarantees that following can work properly and safely and maintain its integrity even in the event of an earthquake.

Schneider Busway certified Zone 4 Seismic compliance
Schneider Busway is certified to UNE Zone 4 seismic conditions - the maximum seismic risk zone. The seismic test was performed in ENRITC (Earthquake Engineering Research Institute Center) which is a center of Asian-Pacific Network of Centers for Earthquake engineering Research (AENBrE), and the test was done with actual seismic ground, not a computer simulation analysis.

The tests at the lab include mechanical tests and dynamic tests. The dynamic tests are done with simulations of different kinds of waveforms of those biggest earthquakes - HOKKAIDO, Chita, KUSA.
**Energy Efficiency**

Highest copper purity

A 99.9% pure copper is used. Copper has a high electrical conductivity and excellent mechanical properties.

Laminated Bimetal (Copper contact)

- **The weakest link of busbar power transmission is the electrical connection part (jiggle and joint opening)**, where high temperature-rise and concentrated power density cause issues.
- **A novel material fusion technology, Schneider®Copper Contact Bimetallic Powder Metallurgy** technology is utilized. The advantage of this technology is the encapsulation of all contact surfaces, ensuring high copper conductivity and low contact resistance.

Effective cross sectional area

- **The effective cross sectional area prevents possible radiation caused by heating** and ensures high conductance.

Maximum contact (non-welded design)

- **Solid rivet technology** is used for a secure and reliable connection.
- **Innovative design** prevents contact resistance and ensures durability.

Continuous earth

- **One More Earth Bus Bar** ensures the bus bar isearthed continuously and prevents voltage rise.

Free of orientation

- **Universal installation** is possible, regardless of the installation orientation.
- **Excellent compact design** ensures the best heat dissipation.

Mylar insulation by DuPont

- **Mylar insulation** ensures the best heat dissipation and prevents short circuits.
- **Durable and efficient insulation** is provided to prevent any potential hazards.

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Easy Installation

Steel/Aluminum housing
- Stronger, more durable and rigid enclosure, higher mechanical strength.
- Plug units can be bolted in either side of the busway without disturbing the busway itself.
- Tough and durable 16-gauge epoxy paint finish.
- Net-optimization, saving an excellent during transportation, handling and installation.

Easy installation
- Both top or bottom fixed for human.
- Screwed on busbar with fix set.

High degree of protection
- Against dust and water, IP56, IP67.
- Against mechanical shock: 40G.

Steel/Aluminum housing
- IP67.
- IK10.

Finger proof
- Suitable design, experiments tested for human

Intelligent plug-in unit

Safe protection
- All plug-in units made with flexible conductors, fully compatible with busway system.
- A combination of temperature pair, can provide complete overload, short circuit and earth fault protection properly.
- Transparent shield inside the PNU can prevent a flashover contact with the busbar.

Accurate measurement and easy communication
- Schneider plug-in unit can measure and display all type of electrical data, percentage.
- With communication module, the data plug-in unit can be interconnect through any bus, saving power management easier for you.

Triple interlock
- Plug unit can not be switched ON until the latch is back in the right position.
- When the unit is switched ON, the door can be opened and removed from the busbar.
- Once the busbar is opened, the unit cannot be switched ON.

Spring jaw design
- The spring jaw is composed of different materials.
- The spring jaw is made of the elastic jaw and a rigid jaw with the busbar, regardless of hundreds of times of switching.

Earthing protection
- Earthing points are distributed at both inlet and outlet of the feeder to protect against earth leakage.
Worldwide major project reference, Asia Pacific and Middle East

**Buildings**

- **Office Building**
  - International Finance Centre (Hong Kong)
  - Tokyo Midtown (Japan)
- **Shopping Center**
  - Pacific Fair (Australia)
- **Exhibition Center**
  - Guangzhou International Exhibition Centre (Guangzhou)
- **Hospital**
  - King Hospital (Saudi Arabia)
  - King Faisal Specialist Hospital, Riyadh (Saudi Arabia)
  - King Fahd Medical City (Saudi Arabia)
- **Bank**
  - Emirates NBD (Dubai)
  - Emirates NBD (Dubai)

**Industry**

- **Automotive**
  - Toyota Motor Corporation (Japan)
  - Ford Motor Company (USA)
- **Electronic**
  - Apple Inc. (USA)
  - Samsung Electronics (South Korea)
  - LG Electronics (South Korea)
  - Sony Corporation (Japan)
- **Light Industry**
  - Panasonic Corporation (Japan)
  - Toshiba Corporation (Japan)
- **Data Center & Networks**
  - Salesforce Tower (San Francisco, USA)
  - AWS Data Centers (USA, Europe, Asia, Australia)

**Energy & Infrastructure**

- **Energy Power**
  - Solar Power Plants (Japan)
  - Wind Power Plants (China)
- **Airport**
  - Dubai International Airport (United Arab Emirates)
  - Hong Kong International Airport (China)
  - Tokyo Haneda International Airport (Japan)
- **Data Center**
  - Alibaba Cloud (China)
  - Tencent Cloud (China)
- **Metro**
  - Dubai Metro (UAE)
  - Beijing Subway (China)
  - Guangzhou Metro (China)
- **Residential**
  - Dubai Marina (UAE)
  - Guangzhou (China)
  - Singapore (Singapore)
## High Power Busway (630A-6000A) I-LINE II Copper Busway

**Specifications**:  
- **Ampere Rating**: 630A-6000A  
- **Phase Rating**: 1-phase  
- **Ambient Temperature**: 50°C  
- **Rated Current Density**: 6 A/m²/°C  
- **Nominal Current (I_n)**: 630A-6000A  
- **Phase-to-Phase (P-P)**: 2500A  
- **Phase-to-Ground (P-G)**: 2500A  
- **Insulation Class**: B  
- **Rated Voltage (U_n)**: 2.5 kV  
- **Nominal Voltage (U_s)**: 2.5 kV  
- **Rated Frequency (f_n)**: 50 Hz  
- **Rated Power Factor (PF)**: 0.8  
- **Rated Current Density (J_n)**: 6 A/m²/°C  
- **Rated Ambient Temperature (T_a)**: 50°C  
- **Rated Insulation Temperature (T_i)**: 140°C  
- **Rated Voltage Drop**: 3.0%  
- **Rated Power Factor (PF)**: 0.8  
- **Rated Current Density (J)**: 6 A/m²/°C  
- **Rated Ambient Temperature (T_a)**: 50°C  
- **Rated Insulation Temperature (T_i)**: 140°C  
- **Rated Voltage Drop**: 3.0%  

### For applications of:  
- **Continuous Duty**  
- **Short-Circuit Duty**

### General specifications:  
- **Busbar Material**: Copper  
- **Insulation Material**: Rubber  
- **Terminals**: Copper  
- **Rating**: 630A-6000A  
- **Contact Material**: Silver  

### Load Break Switch:  
- **Ampere Rating**: 2500A  
- **Phase Rating**: 1-phase  
- **Ambient Temperature**: 50°C  
- **Rated Current Density**: 6 A/m²/°C  
- **Nominal Current (I_n)**: 2500A  
- **Phase-to-Phase (P-P)**: 2500A  
- **Phase-to-Ground (P-G)**: 2500A  
- **Insulation Class**: B  
- **Rated Voltage (U_n)**: 2.5 kV  
- **Nominal Voltage (U_s)**: 2.5 kV  
- **Rated Frequency (f_n)**: 50 Hz  
- **Rated Power Factor (PF)**: 0.8  
- **Rated Current Density (J_n)**: 6 A/m²/°C  
- **Rated Ambient Temperature (T_a)**: 50°C  
- **Rated Insulation Temperature (T_i)**: 140°C  
- **Rated Voltage Drop**: 3.0%  

### Load Break Switch for applications of:  
- **Continuous Duty**  
- **Short-Circuit Duty**
**Lighting busway (25A-40A)**

**Canalis KBB/KBA**

**Description**
- **Type**: KBB/KBA

**Technical Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of units</td>
<td>1 or 2</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Operation Voltage</td>
<td>220 - 1000V</td>
</tr>
<tr>
<td>Fracture Voltage</td>
<td>2000V</td>
</tr>
<tr>
<td>Standard Length</td>
<td>1.0m/1.5m</td>
</tr>
<tr>
<td>Minimum distance between fixing points</td>
<td>0.5m/1.0m</td>
</tr>
<tr>
<td>Nominal current (for each module)</td>
<td>35 - 60</td>
</tr>
</tbody>
</table>

**Protection characteristics**
- **Neutral and earth conductive **

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral current (for each module)</td>
<td>35 - 60</td>
</tr>
<tr>
<td>Neutral current for earth conductor</td>
<td>6A</td>
</tr>
</tbody>
</table>

**Voltage drop** (Line to neutral voltage drop in kV for each module)
- For a current of 35A: 0.098 kV
- For a current of 60A: 0.145 kV

**Lighting busway (20A)**

**Canalis KDP**

**Technical Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of units</td>
<td>1</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Operation Voltage</td>
<td>200 - 400V</td>
</tr>
<tr>
<td>Fracture Voltage</td>
<td>3000V</td>
</tr>
<tr>
<td>Standard Length</td>
<td>2000mm</td>
</tr>
<tr>
<td>Minimum distance between fixing points</td>
<td>0.3m</td>
</tr>
<tr>
<td>Nominal current (for each module)</td>
<td>25A</td>
</tr>
</tbody>
</table>

**Protection characteristics**
- **Neutral and earth conductive **

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral current (for each module)</td>
<td>25A</td>
</tr>
<tr>
<td>Neutral current for earth conductor</td>
<td>6A</td>
</tr>
</tbody>
</table>

**Voltage drop** (Line to neutral voltage drop in kV for each module)
- For a current of 25A: 0.068 kV
Make the most of your Energy