



<https://www.rybusway.com>



 Ren Yun (Hunan) Busbar Co., LTD

 No. 147, South Section of East Eleventh Road, Changsha Economic Development Zone, Hunan Province

 0086-151-1634-2188

 <https://www.rybusway.com>

Due to changes in standards and materials, the functions described in text and images
These materials are only binding on us after confirmation by our business department.



RYM-Z Series Micro Power Bus (16-500A)



<https://www.rybusway.com>

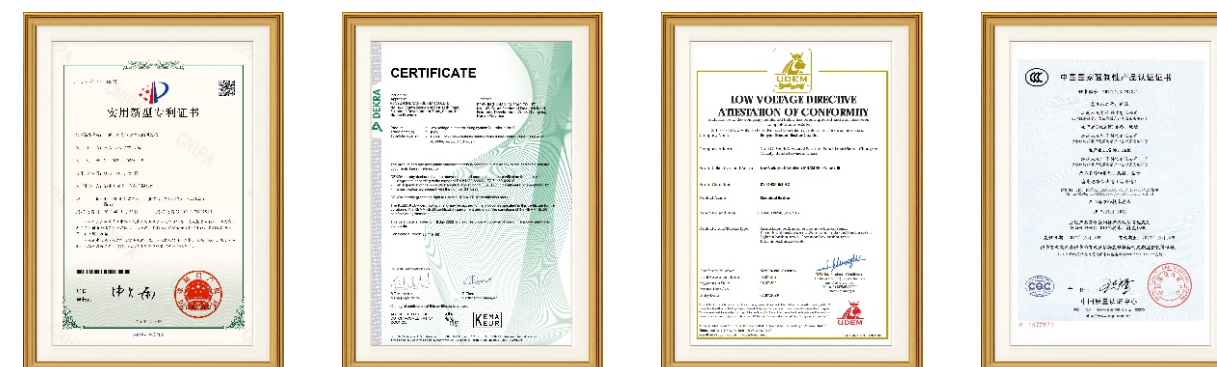




ISO THREE SYSTEM CERTIFICATE



Patent Certificate, CCC, CE Certificate



About Ren Yun

Founded in 2008, Renyun (Hunan) Busbar Co., Ltd. is a technology-driven enterprise specializing in power transmission and distribution solutions. Committed to innovation, the company focuses on R&D, production, sales, and service to build a world-class brand. With 50,000 square meters of production facilities and eight automated production lines, we operate 12 global offices ensuring worldwide coverage. Our product portfolio includes compact busbars, air-insulated busbars, fire-resistant busbars, high-voltage trunking systems, resin-cast busbars, tubular busbars, flexible busbars, and energy-efficient busbar solutions. These versatile products seamlessly integrate with various power supply systems. The company holds ISO9001, ISO14001, ISO45001, and CE certifications, while implementing 8S management standards in production.



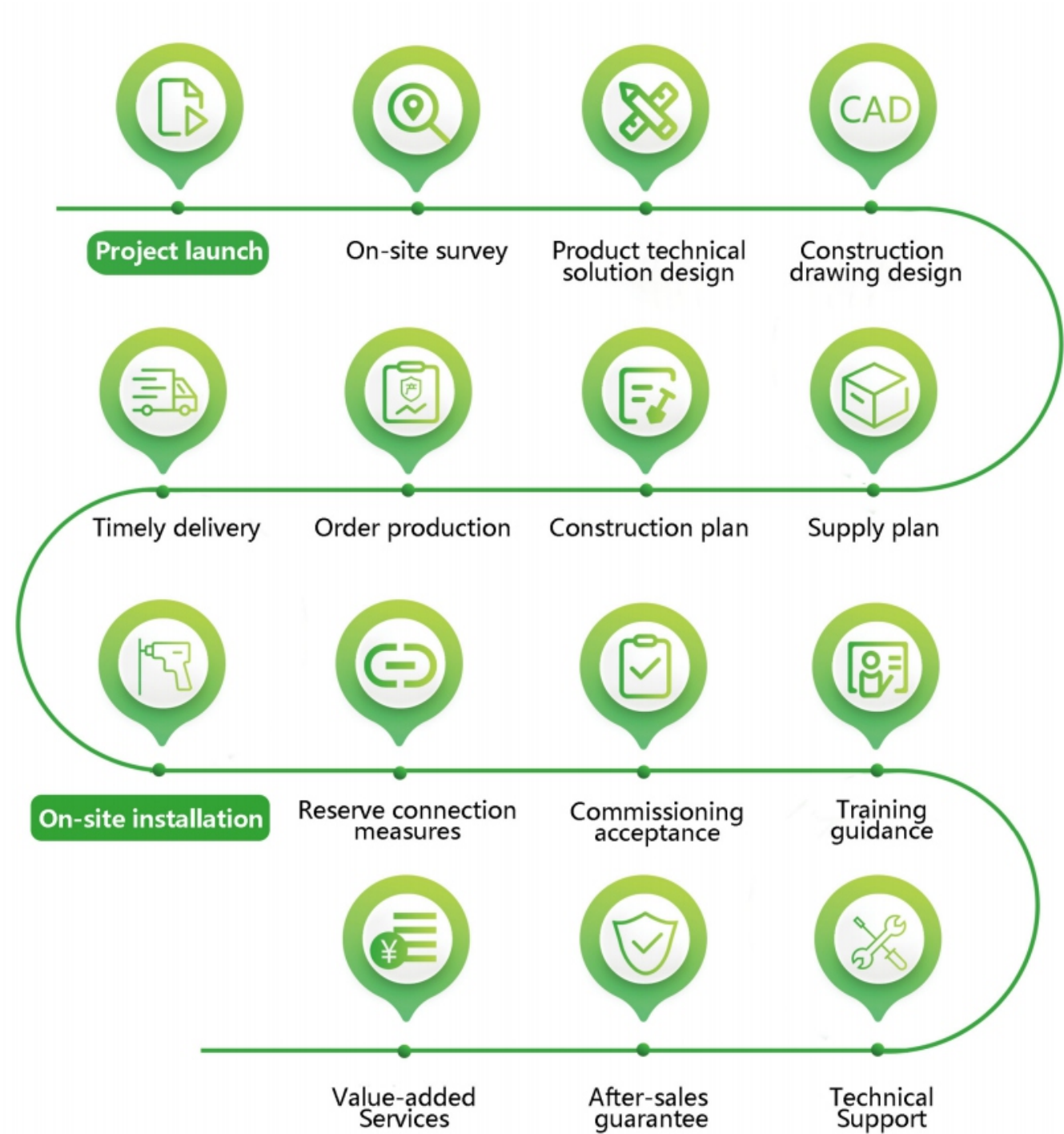
Mission: To deliver advanced, secure, and energy-efficient busbar power systems to the world
Objective: Continuously push the boundaries of technology, always striving to deliver service that exceeds customer expectations

The Choice Of Numerous Well-Known Enterprises



One-Stop Busbar System Supplier
Professional, High quality, Trustworthy

Renyun busbar overall solution



Global Strategic Distribution of Human Busbar



60+ Exporting countries and regions
10+ Global Service Network
100+ Professional and technical personnel
300000+ Cumulative customer service

Renyun (Hunan) Busbar Co, Ltd.		Add:No. 147, South Section of East 11th Road, Economic Development Zone, Changsha, Hunan Province	Tle:+86 151 1634 2188
Middle East: United Arab Emirates, Saudi Arabia, Qatar		Africa: Egypt, South Africa, Nigeria	
Australia: Australia, New Zealand		Europe: Germany, Poland, Netherlands, Russia	
North America: United States, Mexico		South America: Brazil, Peru, Chile	
Southeast Asia: Singapore, India, Indonesia, Malaysia, Bangladesh			

Advanced Production Technology



Automatic Busduct Housing Blanking and Forming Line

Fully automated equipment is used to perform blanking, forming, punching, punching insertion interfaces, and cutting operations on high-quality carbon structural steel housings for busducts, effectively ensuring the strength, quality, and precision of the produced housings.



Advanced Welding Process

The busbar welding adopts the advanced friction stir welding technology in the industry, which makes the weld seam uniform and smooth. It greatly reduces the impact of welding on the electrical conductivity, reduces heat generation, and is energy - saving and environmentally friendly.



Automatic busduct riveting and assembly line

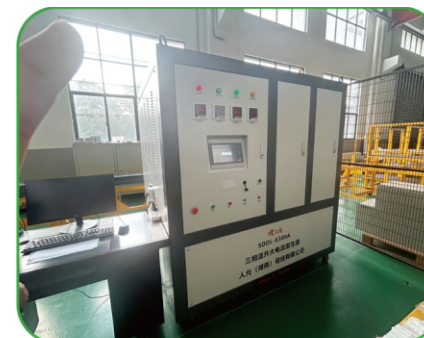
The fully automated busduct riveting line perfectly combines robots with self-piercing riveting technology. It can intelligently adjust the riveting force and the spacing between rivets, ensuring that the assembled busduct has a compact, regular and aesthetically pleasing structure.



Precise sawing of special-shaped bent housings

In the design of busducts, various elbows require the housing to be cut at different angles. A fully automatic double-head CNC cutting machine is used to saw and cut the material according to the required dimensions and specified angles, ensuring that the special-shaped bent housings are perfectly horizontal and vertical and fit tightly after welding, without any angular deviation.

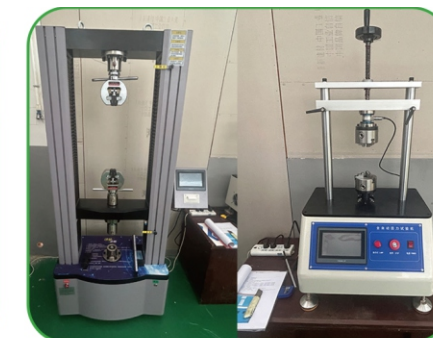
Strict quality control



High-current emperature rise performance detector



Integrated Tester for Intelligent Busbar System



Fully Automatic Tensile/Torsion Force Detection



Conductivity Detection of Busbars



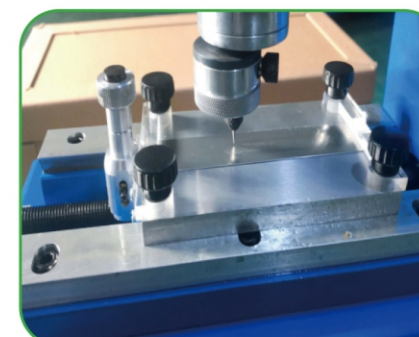
Coating Thickness Detection of Copper Busbars



Salt Spray Test for Components and Parts



Paint Film Thickness Detection



Paint Film Performance Testing



Flatness and Appearance Inspection of Copper Busbars

Professional Project Management

Comprehensive Business Plan

An experienced business team conducts project and user needs analysis, incorporates relevant standards to ensure the rational implementation of user requirements, customizes business solutions, and offers a variety of cooperation models for selection.



Professional Technical Solution

A seasoned industry technical team conducts on-site surveys and customizes professional technical solutions for each project. They can appropriately select or design different types of busbars for various scenarios such as factories, real-estate projects, data centers, residential electrical shafts, and distribution rooms, providing customers with a safe busway power supply system.



Comprehensive Process Control

Develop comprehensive supply and construction plans before project implementation to ensure each project phase proceeds in an orderly manner. Conduct objective and accurate risk assessments, and strictly adhere to customer delivery schedules from both product manufacturing and on-site installation perspectives.



comprehensive Service Assurance

Powerful Service Team

Senior installation service engineers have served clients such as Changsha Rail Transit Group, Changsha Huanghua International Airport, Hunan Television Station, China National Petroleum Corporation, BYD, and Huawei, earning unanimous praise and trust from users. The service team, spread across major cities nationwide, ensures prompt on-site arrival based on project proximity.



Comprehensive Service Provisions

Provide standardized service support for customer projects, including: professional training programs, comprehensive technical documentation, 2-hour prompt response with rapid on-site arrival, first-year warranty and lifetime maintenance support, spare parts availability at any time, and support for upgrades and retrofitting. Ensure customers experience all-round service comparable to a dedicated caretaker.

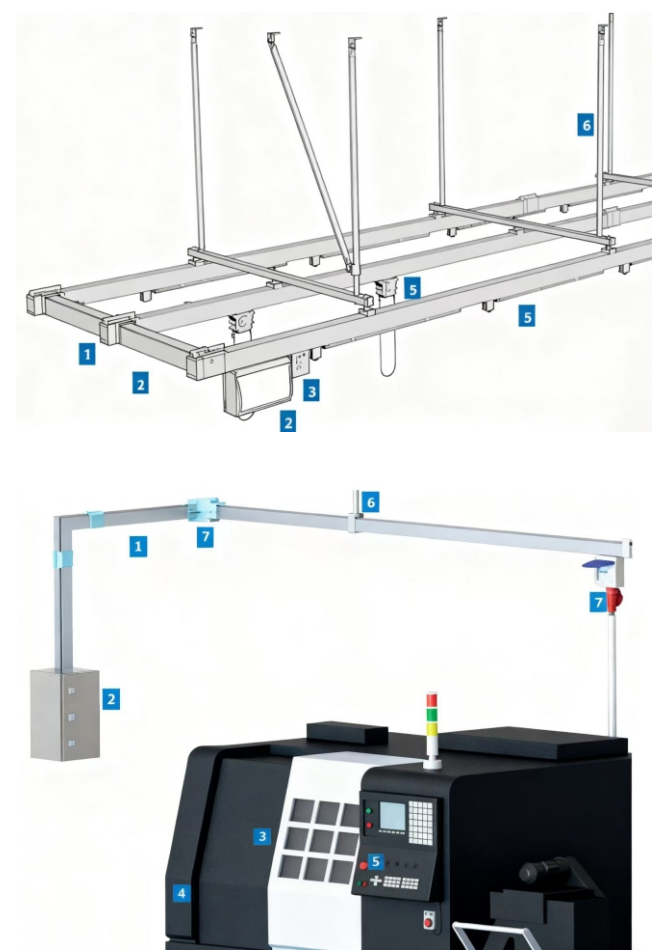


Thoughtful Value-Added Services

Drawing on years of industry experience, we have customized a variety of value-added services to meet the diverse service needs of different clients, including annual inspection service, trade-in replacement, upgrade & retrofitting, and customized accessories. We always prioritize client-centric thinking and actively listen to their voices.



RYM-Z2 Series Micro-Power Busbar
System Description



04 Lighting System

With high-lumen LED lights, it can be used as a light source to reduce workshop wiring.

05 Slide-out Power Outlet

The design allows seamless operation by sliding at any position along the busbar, making it ideal for long workbenches in cutting workshops due to its unique physical structure. The absence of traditional cable wiring enhances the socket's reliability and safety.

01 Micro Power Busbar

The RYM-Z2 series micro-power busbar trunking system delivers a current range of 30A to 500A. Featuring modular compatibility, mass production, compact design, high capacity, short installation cycles, easy assembly/disassembly, non-combustible construction, and long service life, it ensures reliable deployment of power distribution networks for diverse applications.

02 Workgroup Switch/Fuse Box

When used with micro power busbar, it enables independent control of circuits. Through scientific power planning, green electricity consumption can be achieved.

03 Rotating Socket

The unique power extraction design makes power extraction no longer complicated. It can quickly extract power without disconnecting the circuit or destroying the original circuit, avoiding the common phenomenon of stopping work and production for maintenance, and greatly improving the power efficiency and production efficiency.

06 Support System

It consists of three main components: a suspension rod, an inclined rod, and a balance rod. After customization, it can be fixed at any height and form a reliable connection structure.

07 Connect/Disconnect Unit

The maximum rated current can be up to 500A, as the connection and transfer point of each section of bus bar, with fire resistance, antideformation and other

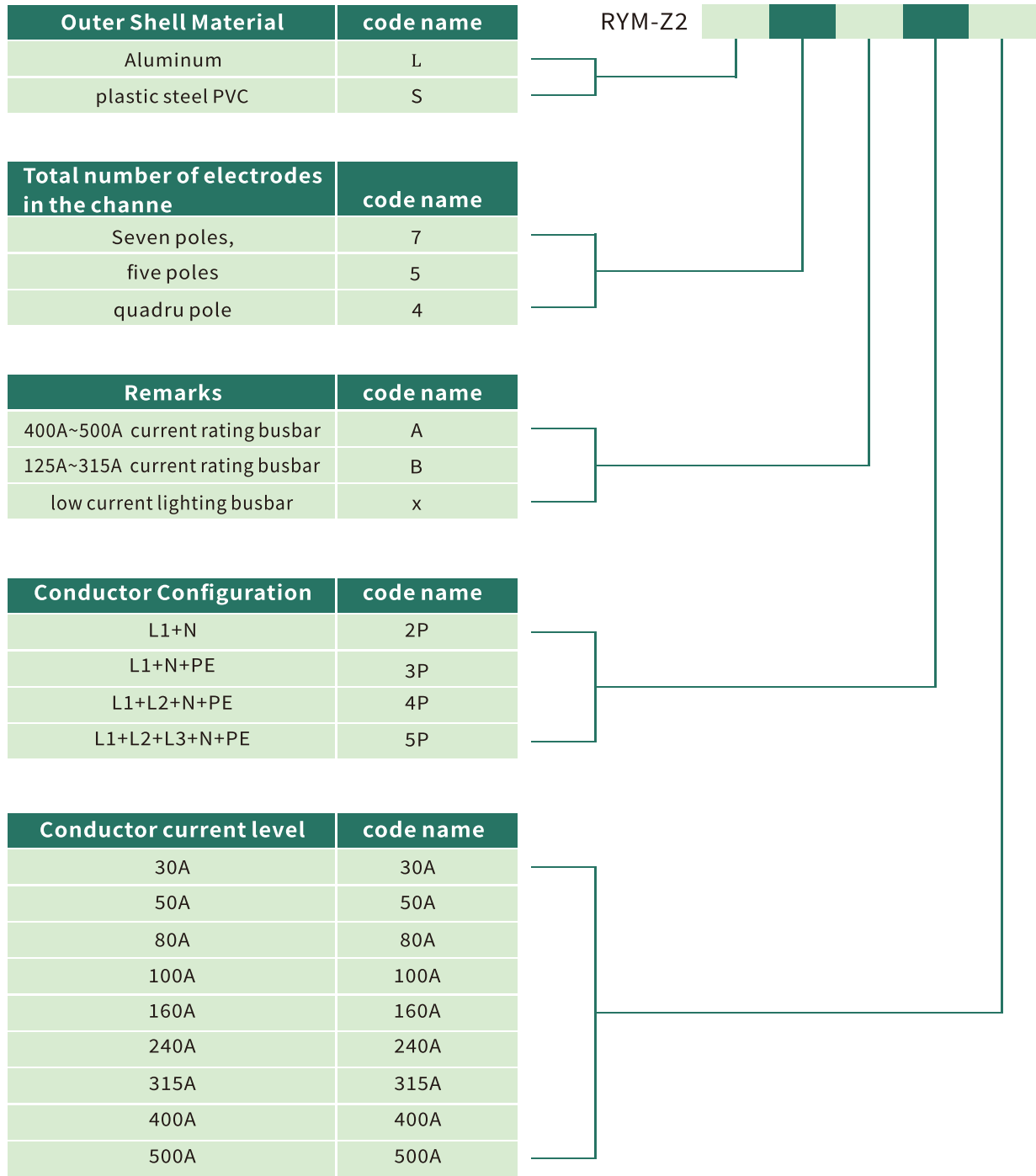
System General Technical Parameters

Product categories	L/S7、L/S5、L/S5X、L4 busbar	L5B、L5A busbar
Minimum/maximum ambient temperature 24-hour average	-5/+40/35℃	-5/+40/35℃
Levels of protection	Ip40	Ip40
Surface preparation	Passivation or electrostatic powder coating (as required by the user)	Passivation or electrostatic powder coating (as required by the user)
Sheathing material	Aluminum	Aluminum
Outer shell color	The specific colors of International Standard Gray (RAL7032, RAL7035) are determined based on user requirements	The specific colors of International Standard Gray (RAL7032, RAL7035) are determined based on user requirements
Rated insulation voltage Ui	400V	500V
Rated operating voltage Ue	380V	400V
Rated frequency f	50HZ	50HZ
Rated current Ie	100A~30A	500A~ 100A
Rated short-time current	8kA	12kA
Rated peak current	12kA	24kA
Conductor material	铜 Cu	铜 Cu
Maximum installation spacing	1.4m	1.4m
Outline dimension	50*70	90*315(L5A)/54*80(L5B)
Voltage category/contamination level	Low pressure /3	Low pressure /3

Note: Different current levels correspond to different data. Refer to Technical Parameters Table 1 in the next section for detailed data.

Specifications Code

The RYM-Z2 series micro-power busbar system assigns codes to key components, including enclosure material, rated current, and conductor configuration. The diagram below illustrates this generation's product code system, enabling users to select products based on this system.

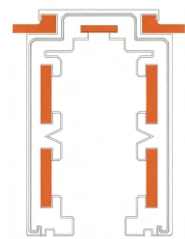
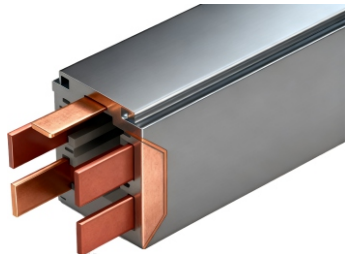


Note: For actual product specifications, please consult the sales consultant

Product Details

L5B Busbar Unit

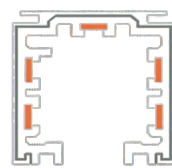
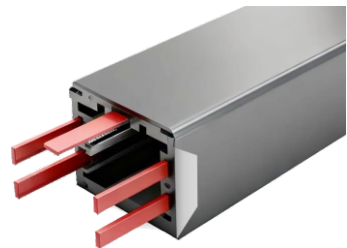
The L5B busbar unit is a power support product specifically designed for heavy industrial production workshops, with a rated operating current of 160A to 315A. Featuring a unique air-cooled wave heat dissipation structure, it effectively controls line temperature, extends service life, and reduces energy costs. Additionally, the product is equipped with a human-machine intelligent power operation and maintenance system that enables real-time monitoring and management of the busbar unit, promptly identifies power system issues, and ensures potential safety hazards are eliminated at the source. The L5B busbar unit provides users with enhanced safety and reliability in power supply assurance.



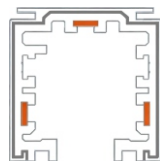
5-5 main busbar
Type: RYM-Z2-L5B-5P
Unit: meter/m
Weight: 5.45kg/m
Size: 4000*55*80mm
Rated current: 160A/315A

L5X Busbar Unit

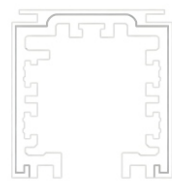
The L5X busbar unit, equipped with a self-developed rotating power-taking device, eliminates the need for power shutdowns when adding equipment, significantly enhancing circuit safety and production efficiency. Compared to the L/S7 busbar unit, it occupies less space and supports 380V power supply, making it ideal for power and lighting in garment cutting, garment, bag, and leather goods production workshops



5-5 small lighting distribution aluminum alloy shell busbar
Type: RYM-Z2-L5X-5P
Unit: meter/m
Weight: 2.4kg/m
Size: 4000*52*55mm
Current level: 30A/50A



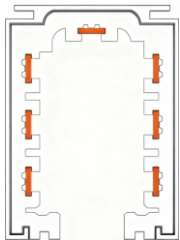
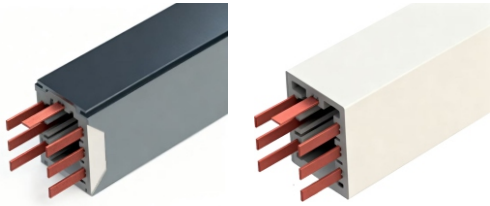
5-3 small lighting distribution aluminum alloy shell busbar
Type: RYM-Z2-L5X-3P
Unit: meter/m
Weight: 2.3kg/m
Size: 4000*52*55mm
Current level: 30A/50A



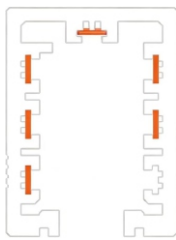
5-0 small lighting distribution aluminum alloy shell busbar
Type: RYM-Z2-L5X-0P
Unit: meter/m
Weight: 2.1kg/m
Size: 4000*52*55mm
Current level: 0

L7/S7 Busbar Unit

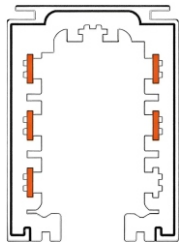
L7 and S7 busbar units are equipped with a self-developed rotating power-taking device, enabling seamless equipment expansion without power shutdowns or wiring disconnections, thereby significantly enhancing circuit safety and production efficiency. These units are ideal for power supply and lighting in garment, bag, and leather goods manufacturing facilities.



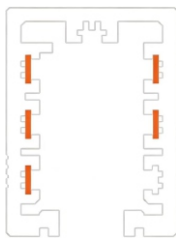
7-7 aluminum alloy busbar trunking
Type: RYM-Z2-L7-7P
Unit: meter/m
Weight: 3.3kg/m
Size: 4000*52*70mm
Rated current: 30A/50A



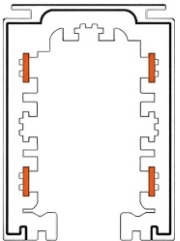
7-7PVC plastic steel busbar trunking
Type: RYM-Z2-S7-7P
Unit: meter/m
Weight: 3.1kg/m
Size: 4000*52*70mm
Rated current: 30A



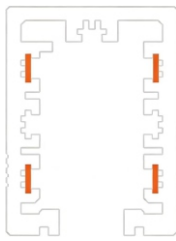
7-5 aluminum alloy busbar trunking
Type: RYM-Z2-L7-5P
Unit: meter/m
Weight: 3.2Kg/m
Size: 4000*52*70mm
Rated current: 30A/50A



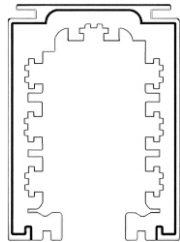
7-5PVC plastic steel busbar trunking
Type: RYM-Z2-S7-5P
Unit: meter/m
Weight: 3Kg/m
Size: 4000*52*70mm
Rated current: 30A



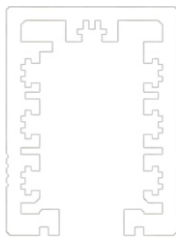
7-3 aluminum alloy busbar trunking
Type: RYM-Z2-L7-3P
Unit: meter/m
Weight: 3.1kg/m
Size: 4000*52*70mm
Rated current: 30A/50A



7-3PVC plastic-steel bus duct
Type: RYM-Z2-S7-3P
Unit: meter/m
Weight: 2.9kg/m
Size: 4000*52*70mm
Rated current: 30A



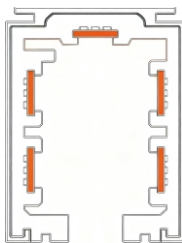
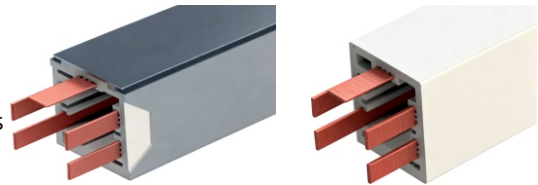
7-0 aluminum alloy busbar trunking
Type: RYM-Z2-L7-0P
Unit: meter/m
Weight: 3kg/m
Size: 4000*52*70mm
Rated current: 0A



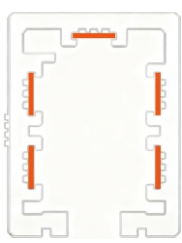
7-PVC PVC plastic steel busbar trunking
Type: RYM-Z2-S7-0P
Unit: meter/m
Weight: 2.7kg/m
Size: 4000*52*70mm
Rated current: 0A

L5/S5 Busbar Unit

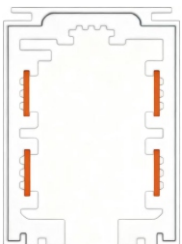
L5 and S5 busbar units are equipped with Renyun's proprietary rotating and sliding power-taking devices, enabling seamless equipment upgrades without downtime or wiring disassembly. This innovation significantly enhances electrical safety and production efficiency. The system is ideal for power supply and lighting in garment cutting, garment manufacturing, bag production, and leather goods workshops.



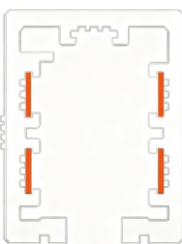
5-5 sliding contact aluminum alloy busbar trunking
Type: RYM-Z2-L5-5P
Unit: meter/m
Weight: 312kg/m
Size: 4000*52*70mm
Rated current: 30A/60A



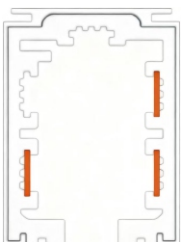
5-5mm sliding contact PVC/Steel composite busbar
Type: RYM-Z2-S5-5P
Unit: meter/m
Weight: 3.02g/m
Size: 4000*52*70mm
Rated current: 30A/60A



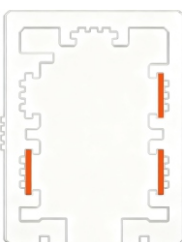
5-4 sliding contact aluminum alloy busbar trunking
Type: RYM-Z2-L5-4P
Unit: meter/m
Weight: 3.05g/m
Size: 4000*52*70mm
Rated current: 30A/60A



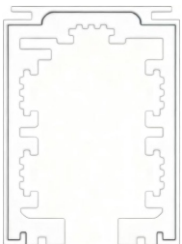
5-4 Sliding-type PVC/Steel Busway
Type: RYM-Z2-S5-4P
Unit: meter/m
Weight: 2.95g
Size: 4000*52*70mm
Rated current: 30A/60A



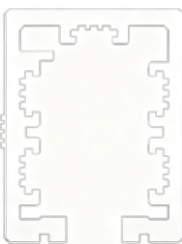
5-3 sliding contact aluminum alloy busbar trunking
Type: RYM-Z2-L5-3P
Unit: meter/m
Weight: 3ka/m
Size: 4000*52*70mm
Rated current: 30A/60A



5-3mm PVC-coated steel busbar with sliding contact
Type: RYM-Z2-S5-3P
Unit: meter/m
Weight: 29g/m
Size: 4000*52*70mm
Rated current: 30A/60A



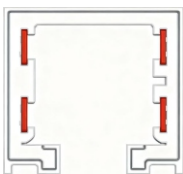
5-0 sliding aluminum alloy busbar trunking
Type: RYM-Z2-L5-0P
Unit: meter/m
Weight: 28kg/m
Size: 4000*52*70mm
Rated current: 30A/60A



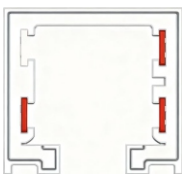
5-0 Sliding PVC/Steel Busway
Type: RYM-Z2-S5-0P
Unit: meter/m
Weight: 2.7kg/m
Size: 4000*52*70mm
Rated current: 30A/60A

L4 Busbar Unit

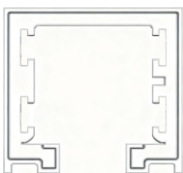
The L4 busbar unit, equipped with a self-developed rotary power-taking device, eliminates the need for equipment disassembly during expansion, significantly enhancing circuit safety and production efficiency. Compared to L/S7, L/S5, and L5X busbar units, it occupies less space, supports 220V power supply, and is ideal for low-power electrical workshops and basement lighting applications.



4-4 small lighting power busbar
Type:RYM-Z2-L4-4P
Unit: meter/m
Welght:1.7kg/m
Size:4000*42*40mm
Rated current:30A



4-3 small lighting power busbar
Type:RYM-Z2-L4-3P
Unit: meter/m
Welght: 1.6kg/m
Size:4000*42*40mm
Rated current:30A



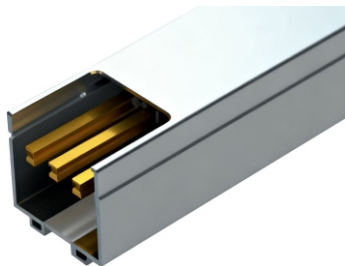
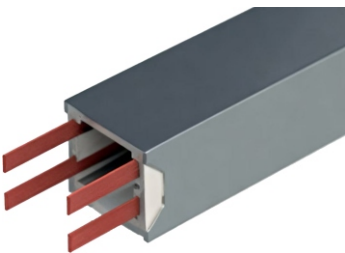
4-0 small lighting power busbar
Type:RYM-Z2-L4-0P
Unit: meter/m
Welght: 1.4kg/m
Size:4000*42*40mm
Rated current:0

DG Busbar Unit

The DG safety busbar unit is constructed from aluminum-magnesium alloy, featuring exceptional corrosion resistance, impact resistance, wear resistance, and deformation resistance. Its internal insulation bracket employs the company-standard 'PC' material, offering high impedance and superior insulation properties. The roller-type collector utilizes dual circular carbon brushes, which not only minimize friction between the brushes and copper strips but also significantly enhance service life and product



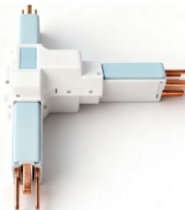
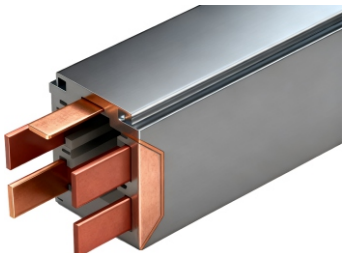
Automatic rail
Type: RYM-Z2-DG-3P
Unit: meter
Weight: 2407kg/m
Slze:3000*63*65mm
Rated current:30A



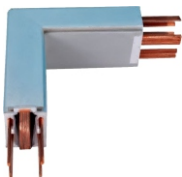
Product Details

L5B Busbar Unit Accessories

The L5B busbar unit is a power support product specifically designed for heavy industrial production workshops, with a rated operating current of 160A to 315A. Featuring a unique air-cooled wave heat dissipation structure, it effectively controls line temperature, extends service life, and reduces energy costs. Additionally, the product is equipped with a human-machine intelligent power operation and maintenance system that enables real-time monitoring and management of the busbar unit, promptly identifies power system issues, and ensures potential safety hazards are eliminated at the source. The L5B busbar unit provides users with enhanced safety and reliability in power supply assurance



Busbar Junction Box
Type:RYM-Z2-L5B-JBST-315
Unit: pieces/pc
Welght:4798g
Size:520*430*150mm
Rated current:315A



Busbar horizontal elbow
Type:RYM-Z2-L5B-JBWT-315
Unit: pieces/pc
Welght:2250g
Size:250*250*80mm
Rated current: 315A



Busbar vertical elbow
Type:RYM-Z2-L5BXW-315
Unit: pieces/pc
Welght:2250g
Size:250*250*80mm
Rated current:315A



Tap unit
Type:RYM-Z2-L5B-BJKG60
Unit:set
Welght: 1041g
Size:150*90*230mm
ReMark:63A



suspension clamp
Type:RYM-Z2-L5B-DJ
Unit: pieces/pc
Welght: 100g
Size:51*35*33mm
ReMark:



ribbon connector
Type:RYM-Z2-L5B-LJQ
Unit: pieces/pc
Welght: 150g
Size:61*58*27mm
ReMark:



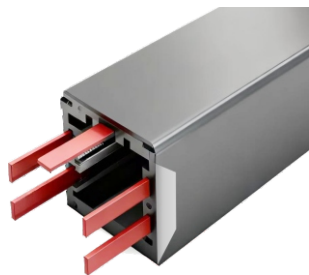
junction box
Type:RYM-Z2-L5B-SJ
Unit: pieces/pc
Welght: 204g
Slze:167*100*105mm
ReMark:



End of the line
Type:RYM-Z2-L5B-DG
Unit: pieces/pc
Welght: 36g
Size:60*28*85mm
ReMark:

L5X Busbar Unit Accessories

The L5X busbar unit, equipped with a self-developed rotating power-taking device, eliminates the need for power shutdowns when adding equipment, significantly enhancing circuit safety and production efficiency. Compared to the L/S7 busbar unit, it occupies less space and supports 380V power supply, making it ideal for power and lighting in garment cutting, garment, bag, and leather goods production workshops.



Rotating socket
Type:RYM-Z2-L5X-MXCZ5K
Unit: pieces/pc
Welght:166g
Slze: 66*36*125mm
ReMark:10A,customizable



Rotating socket
Type:RYM-Z2-L5X-MXCZ4K
Unit: pieces/pc
Welght: 150g
Size:66*36*128mm
ReMark:10A, customizable



Rotating socket
Type:RYM-Z2-L5X-CZD3-1
Unit: pieces/pc
Welght:233g
Size:85*48*138mm
ReMark:10A



Rotating socket
Type:RYM-Z2-L5X-CZP
Unit: pieces/pc
Welght: 216g
Size:85*48*138mm
ReMark:16A



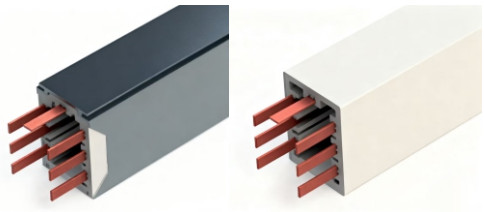
lamp switch
Type:RYM-Z2-L5X-DKG
Unit: pieces/pc
Welght:53g
Size:39*36*95mm
ReMark: 3A



Control switch distribution box
Type:RYM-Z2-L5X-PDH5
Unit:set
Welght: 956g
Size:218*90*160mm
ReMark:32A

L7/S7 Busbar Unit Accessories

L7 and S7 busbar units are equipped with a self-developed rotating power-taking device, enabling seamless equipment expansion without power shutdowns or wiring disconnections, thereby significantly enhancing circuit safety and production efficiency. These units are ideal for power supply and lighting in garment, bag, and leather goods manufacturing facilities.



Rotating overload protection socket
Type:RYM-Z2-L7-MXCZ3K
Unit: pieces
Welght:140g
Size:65*36*137mm
Remarks:10A



Rotating overload protection socket
Type: RYM-Z2-L7-MXCZ4K
Unit: pieces
Welght:141g
Size:65*36*137mm
Remarks:16A



Rotating overload protection socke
Type:RYM-Z2-L7-MXCZ3K
Unit: pieces
Welght:171g
Size:70*36*150mm
Remarks:10A



Rotating leakage protection socket
Type:RYM-Z2-L7-MXLBCZ5
Unit: pieces
Welght:239g
Size:85*52*143mm
Remarks:10A



Rotating industrial five-hole socke
Type: RYM-Z2-L7-MXGYCZ5
Unit: pieces
Welght: 247g
Size:112*112*150mm
Remarks:16A



Rotating combination socket
Type:RYM-Z2-L7-MXCZ34
Unit: pieces
Welght:248g
Size:126*36*178mm
Remarks:16A



Rotating combination socket
Type:RYM-Z2-L7-MXCZ54
Unit: pieces
Welght:859g
Size:23*12*23mm
Remarks:16A



Combination leakage protection socket
Type: RYM-Z2-L7-LBCZG33
Unit: pieces
Welght:982g
Slze:208*90*185mm
Remarks:10A



Combination leakage protection socket
Type:RYM-Z2-L7-LBCZG34
Unit: pieces
Welght:982g
Size:208*90*185mm
Remarks:16A



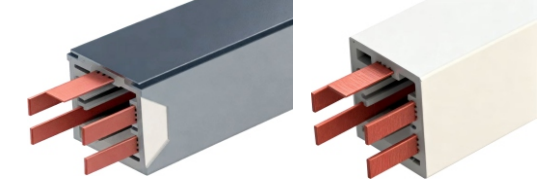
Combination leakage protection socke
Type:RYM-Z2-L7-LBCZG322
Unit: pieces
Welght:982g
Size:208*90*185mm
Remarks:10A

L7/S7 Busbar Unit Accessories

	Team leakage protection switch Type: RYM-Z2-L7-LB Unit: Weight:1125g Size:218*90*160mm Remarks:32A 63A		lamp switch Type: RYM-Z2-L7-MXDKG Unit: pieces Weight:53g Size: 39*36*107mm Remarks:3A
	Dual-Link Connector Box Type:RYM-Z2-L7-MXSJ Unit: pieces Weight:105g Size:120*68*92mm Remarks:		Three-way connector Type:RYM-Z2-L7-MXST Unit: Set Weight:172g Size:120*128*92mm Remarks:
	Bend-through connector box Type: RYM-Z2-L7-MXWT Unit: Set Weight:140g Size:120*97*92mm Remarks:		End of the line Type: RYM-Z2-L7-MXDG Unit: pieces Weight:30g Size:57*28*72mm Remarks:
	Light Pendant Type: RYM-Z2-L7-MXDGJ Unit: pieces Weight:3g Size:38*12*26mm Remarks:		Light Pendant Type:RYM-Z2-L7-MXDGJP Unit: pieces Weight:5g Size:37*19*12mm Remarks:
	ribbon connector Type: RYM-Z2-L7-MXLJQ1 Unit: pieces Weight:12g Size:26*16*16mm Remarks:		suspension clamp Type: RYM-Z2-L7-DJ Unit: pieces Weight:22g Size:52*38*20mm Remarks:

L5/S5 Busbar Unit Accessories

L5 and S5 busbar units are equipped with independently developed rotating and sliding power-taking devices, enabling seamless equipment installation without power shutdowns or wiring disconnections. This significantly enhances electrical safety and production efficiency. The system is ideal for power supply and lighting in garment cutting, garment manufacturing, bag production, and leather goods workshops.

	Crop socket Type:RYM-Z2-L5-MXCJ3K Unit: pieces Weight:439g Size:180*36*133mm Remarks:10A		Slide industrial socket Type:RYM-Z2-L5-HDGYCZ3K Unit: pieces Weight:512g Size:210*72*158mm Remarks:16A
	Slide industrial socket Type: RYM-Z2-L5-HDGYCZ5K Unit: pieces Weight:592g Size:210*88*160mm Remarks:16A		Slide socket Type: Unit: pieces Weight:422g Size:156*36*126mm Remarks:16A
	suspension clamp Type: RYM-Z2-L5-MXDJ Unit: pieces Weight:22g Size:52*38*20mm Remarks:		junction box Type:RYM-Z2-L5-MXSJ Unit: Set Weight:105g Size:120*68*92mm Remarks:
	End of the line Type: RYM-Z2-L5-MXDG Unit: pieces Weight:30g Size:57*28*72mm Remarks:		ribbon connector Type:RYM-Z2-L5-MXLJQ2 Unit: pieces Weight:14g Size:23*22*17mm Remarks:
	Bend Box Type:RYM-Z2-L5-MXWT2 Unit: Set Weight:278g Size:175*175*125mm Remarks:		Three-way box Type:RYM-Z2-L5-MXST2 Unit: Set Weight:380g Size:258*173*125mm Remarks:

L5/S5 Busbar Unit Accessories



Rotating overload protection socket
Type: RYM-Z2-L5-MXCZ3K
Unit: pieces
Weight: 131g
Size: 65*36*134mm
Remarks: 10A



Rotating overload protection socket
Type: RYM-Z2-L5-MXCZ4K
Unit: pieces
Weight: 132g
Size: 65*36*134mm
Remarks: 6A



rotary switch
Type: RYM-Z2-L5-JXQ
Unit: pieces
Weight: 90g
Size: 65*36*100mm
Remarks: 16A



Rotating overload protection socket
Type: RYM-Z2-L5-MXCZ5K
Unit: pieces
Weight: 171g
Size: 70*36*147mm
Remarks: 10A



Tap unit
Type: RYM-Z2-L5-L5-MXDL4P32
Unit: pieces
Weight: 772g
Size: 150*90*215mm
Remarks:



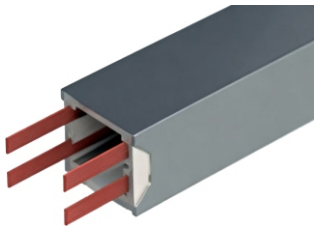
Tap unit
Type: RYM-Z2-L5-MXLB1P32
Unit: pieces
Weight: 706g
Size: 150*90*215mm
Remarks:



Tap unit
Type: RYM-Z2-L5-MXLB3P32
Unit: pieces
Weight: 1240g
Size: 218*90*215mm
Remarks: 32A

L4 Busbar Unit Accessories

The L4 busbar unit, equipped with a self-developed rotary power-taking device, eliminates the need for equipment disassembly during expansion, significantly enhancing circuit safety and production efficiency. Compared to L/S7, L/S5, and L5X busbar units, it occupies less space, supports 220V power supply, and is ideal for low-power electrical workshops and basement lighting applications



Rotating single-phase socket
Type: RYM-Z2-L4-CZ3
Unit: pieces/pc
Weight: 147g
Size: 65*36*117mm
Remark: 10A is customizable



lamp switch
Type: RYM-Z2-L4-DKG
Unit: pieces/pc
Weight: 46g
Size: 39*37*85mm
Remark: 3A



Fan speed control switch
Type: RYM-Z2-L4-FS
Unit: pieces/pc
Weight: 116g
Size: 65*47*117mm
Remark:



suspension clamp
Type: RYM-Z2-L4-DJ
Unit: pieces/pc
Weight: 20g
Size: 45*28*56mm
Remark:



Control switch distribution box
Type: RYM-Z2-L4-PDH3
Unit: Set
Weight: 551g
Size: 150*90*160mm
Remark: 32A

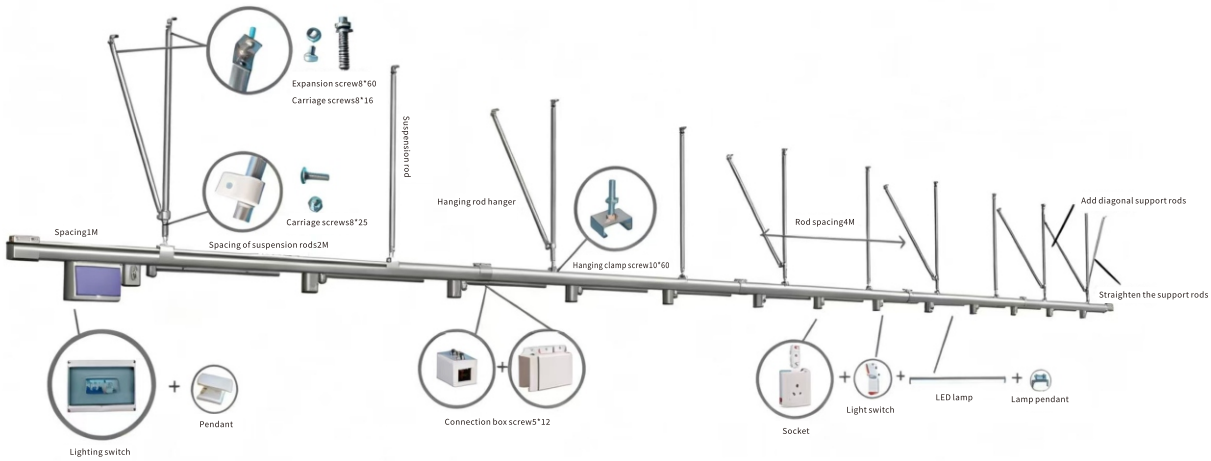


Tap unit
Type: RYM-Z2-L5-MXLB1P32
Unit: pieces
Weight: 706g
Size: 150*90*215mm
Remarks:

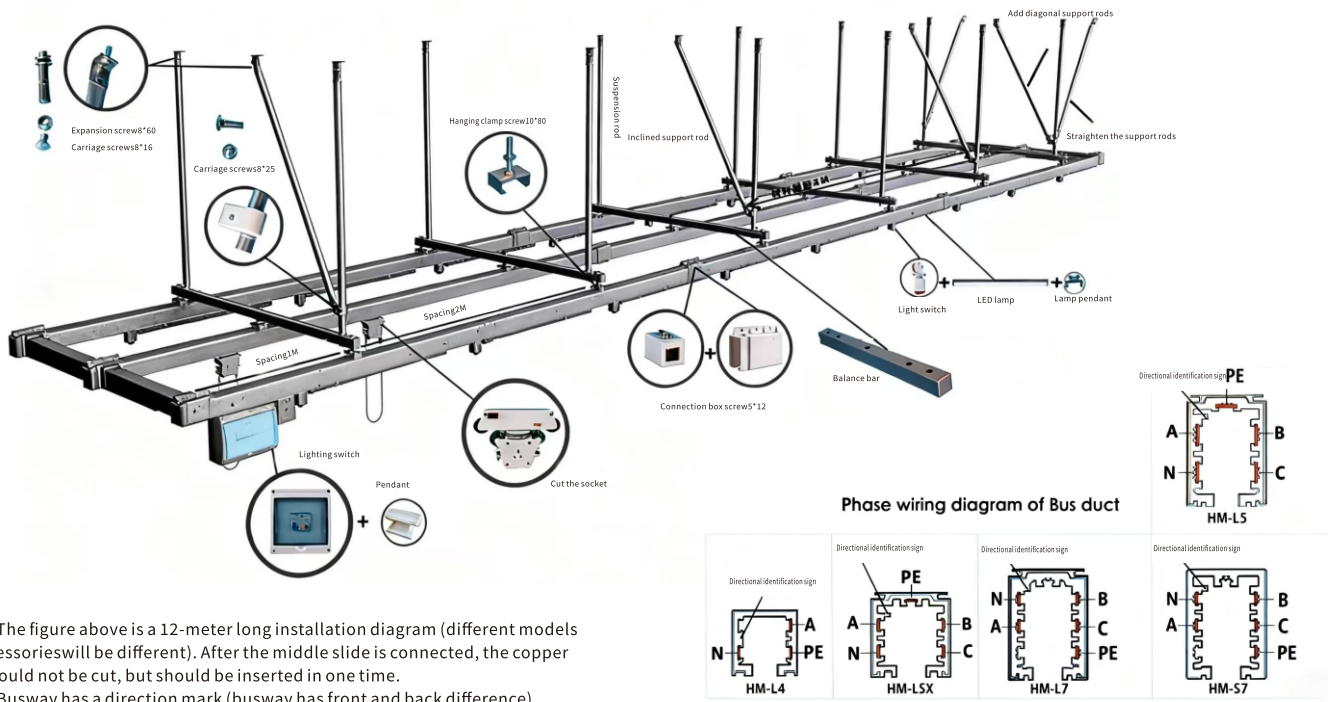
Installation Specification

The micro-power safety busbar system features modular units designed for factory-customized production after initial measurements, with components delivered to the construction site for assembly. The modular installation method reduces project duration by over 45% compared to traditional cable tray systems. The following figure illustrates the installation procedure

Lighting and power bus system



Trim Busbar System



Note: The figure above is a 12-meter long installation diagram (different models of accessories will be different). After the middle slide is connected, the copper bar should not be cut, but should be inserted in one time.
Note: Busway has a direction mark (busway has front and back difference), when busbar is connected, pay attention to the direction, the direction mark

Note: During busbar precise alignment (identification marks must be on the same side)
The busbar busbar identification mark is located on the back of the socket.
Different busbar trunking models have varying numbers of copper strip must be on the same side.

Assembly Parts

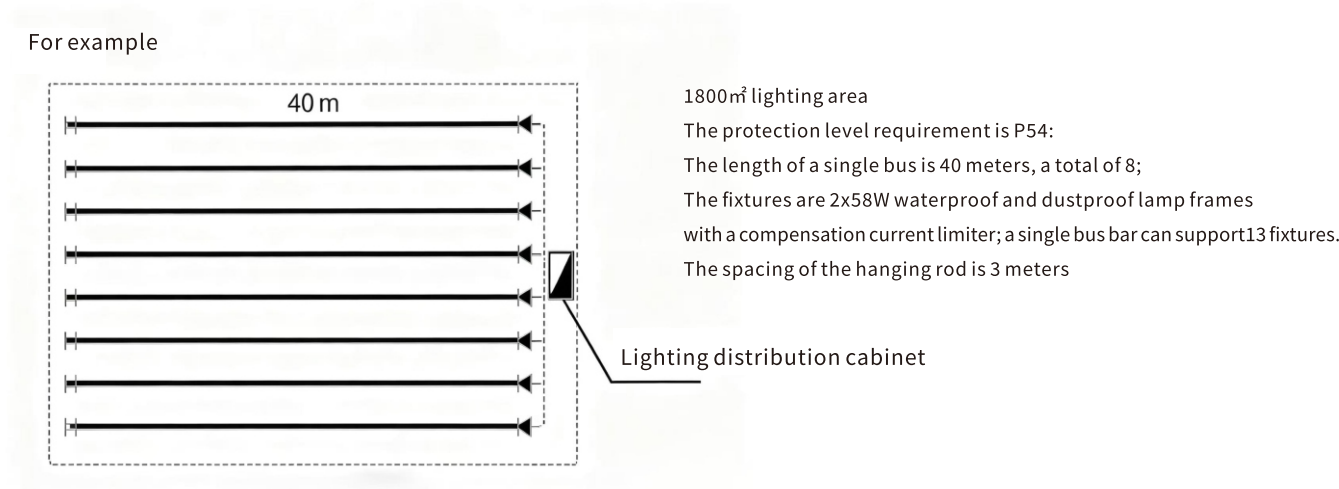
The micro-power safety busbar system features modular units, custom-manufactured in factories after initial measurements, then shipped to the construction site for installation. The installation requires the accessories shown in the diagram. Customers must place orders for these accessories simultaneously with the system

	Support Type: RYM-Z2-FJ-ZJ1 Unit: Set Weight: 1102g/m Size: 40*40mm ReMark: M8		Portal frame Type: RYM-Z2-FJ-ZJ2 Unit: Set Weight: 1102g/m Size: 40*40mm ReMark: M8
	Support Type: RYM-Z2-FJ-ZJ3 Unit: Set Weight: 1102g/m Size: 40*40mm ReMark: M8		Balance bar Type: RYM-Z2-FJ-PHG Unit: root per pc Weight: 546g Size: 32*32*120mm ReMark: M10
	Boom Type: RYM-Z2-FJ-DG Unit: meters per meter Weight: 170g/m Size: 23*1.0mm ReMark: M10		Diagona 型号 Type: RYM-Z2-FJ-XG Unit: meters per meter Weight: 170g/m Size: 23*1.0mm ReMark: M8
	Ashank Type: RYM-Z2-FJ-LSG Unit: meters per meter Weight: 420g Size: 23*12*23mm ReMark: M10		Porous aluminum alloy U-shaped groove Type: RYM-Z2-FJ-DKG Unit: meters per meter Weight: 982g Size: 27*27*2.0mm ReMark: M10
	L film Type: RYM-Z2-FJ-LP Unit: pieces/pc Weight: 18g Size: 37*28*44mm ReMark: M8		C section steel hook Type: RYM-Z2-FJ-GG Unit: pieces/pc Weight: 88g Size: 39*32*53mm ReMark: M10

RYM-Z1 Series Lighting Busbar System Description

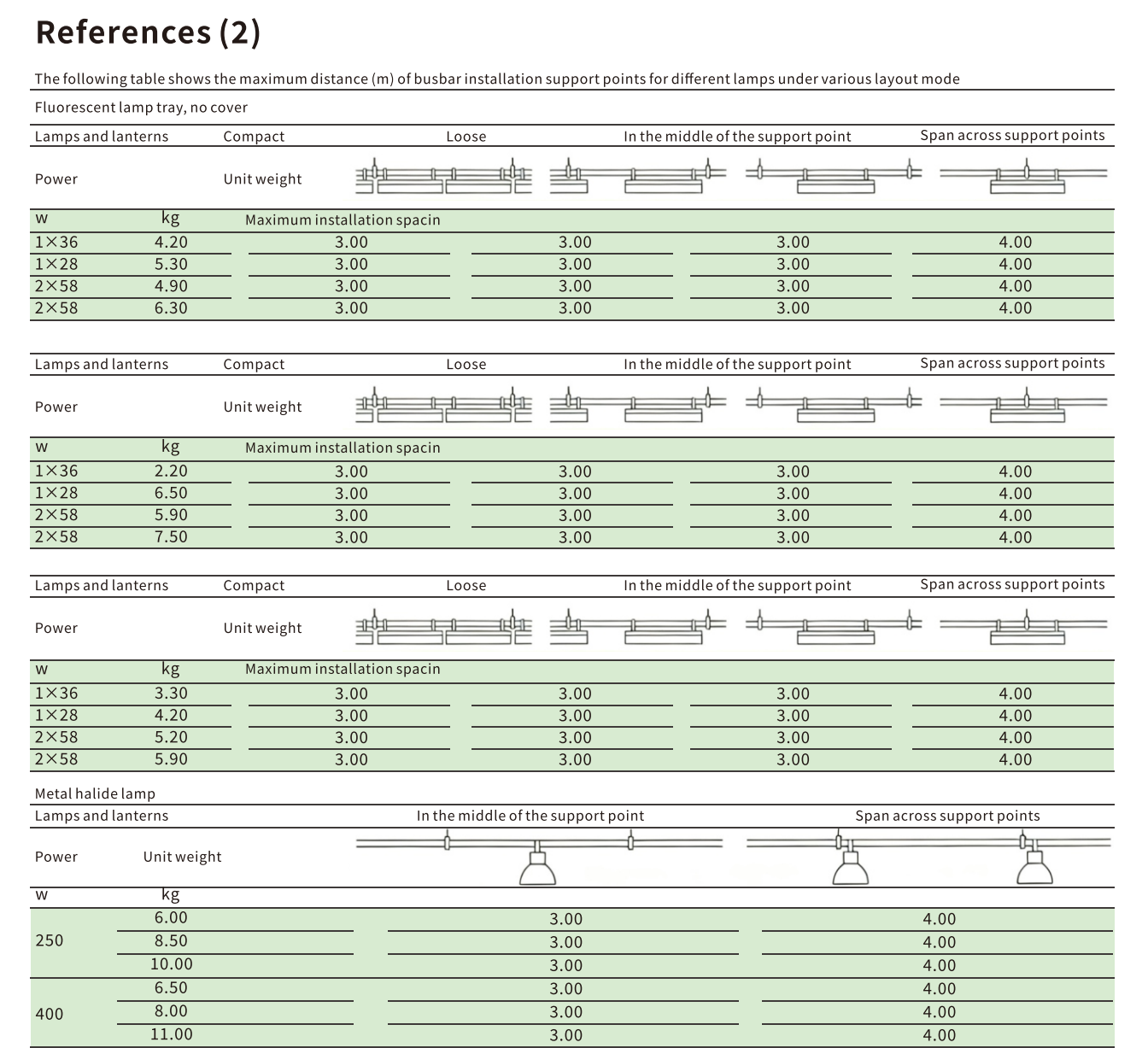
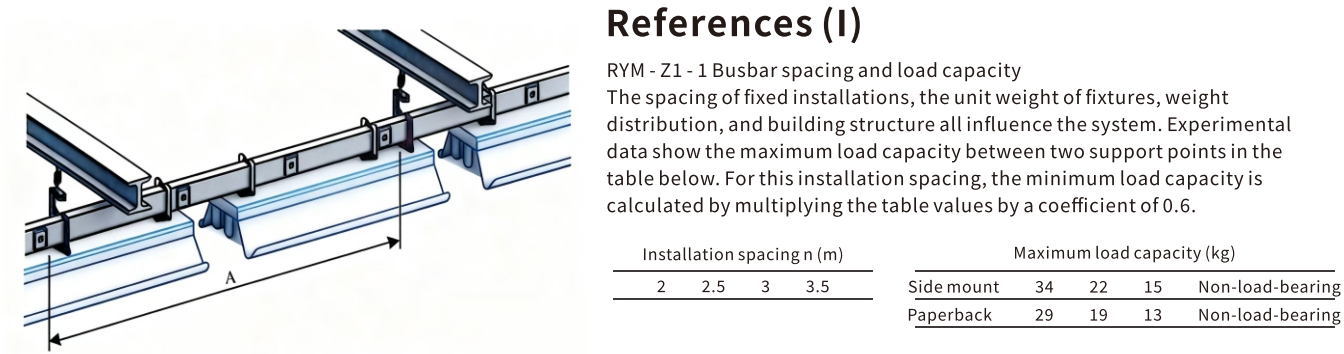
Selection Step

1. Based on the type and quantity of lamps, the nominal current of a single circuit is determined, and the busbar with different rated current is selected accordingly. After testing, our company provides a quick selection table, see reference (3) for details.
2. Based on the voltage drop data of cables and busbars provided in reference (4), calculate the voltage drop of the whole circuit. If the voltage drop does not meet the requirements, a busbar with a larger rated current should be selected.
3. Select appropriate protective devices such as circuit breakers and fuses based on the protection requirements of electrical equipment, cables, and busbars, including overload and short-circuit protection, as well as the electrical characteristics upstream of the protection devices



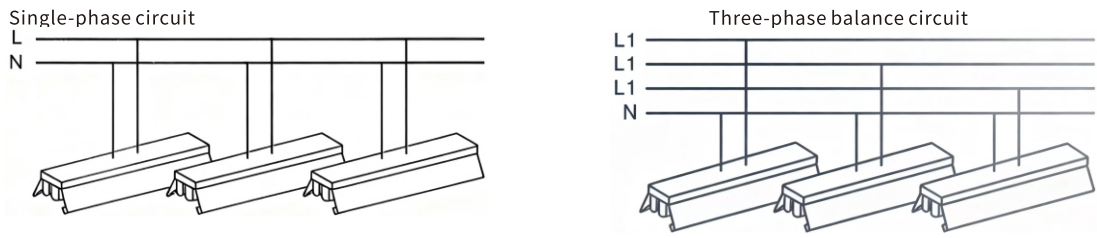
1. According to reference (3), the nominal current of the entire circuit is 10A. Therefore, the single-phase 16A busbar model RYM-Z1-16 is selected.
2. Select the appropriate cable in accordance with the protection equipment and take into account the range of voltage drop.
3. Since each busbar circuit is 40 meters long and each RYM-Z1-16 cable is 3 meters long, 13 RYM-Z1-16 cables are required (13x8=104) to accommodate the end seal connection cables.
4. For the fixed device, select lifting clamps (model RYM-Z1-63ZA2, 104 units) and lamp mounting clips (model RYM-Z163ZA4, quantity).208 individual 。
5. To reduce installation time, the support units can be selected as RYM-Z1-10CC 211 with 1-meter cables, resulting in 13x8=104 units.
6. For the feeder unit and end seals, select the left end seal RYM-Z1M-40AA4 (8 units) and the current box model RYM-Z1M-63AA4 (8 units) according to standard installation practices.
7. The 2x58W waterproof and dustproof lamp frame weighs 5.9kg per unit. Based on reference materials (1) and (2), the installation arrangement can be determined.
8. The above items are mandatory. Users can freely choose other attachments.

System Design and Selection Principles



References (3)

The table below illustrates the coordination relationship among the total number of lamps, the number of lamp panels, and the nominal current in the circuit for each lamp type.



analytical procedure :

- Determine the type and power of the lamp;
- Determine the number of lamps in the circuit to be analyzed;
- analyze the nominal current in the circuit according to the table below;

fluorescent tube

Type	Power	Quantity											
	w	Uniphase						Three-phase + interme					
With ballast compensator	1×36	33	53	66	—	—	—	99	—	—	—	—	—
	1×28	25	40	55	62	—	—	75	—	—	—	—	—
	2×58	21	33	42	52	76	—	63	99	—	—	—	—
	2×58	13	20	26	32	41	52	39	60	78	96	—	—
No ballast compensator	4.20	22	35	44	55	—	—	66	105	—	—	—	—
	5.30	14	22	28	35	44	—	42	66	84	—	—	—
	4.90	11	17	22	27	35	44	33	51	66	81	—	—
	6.30	7	11	14	17	22	28	21	33	42	51	66	84
Nominal current (A)		10	16	20	25	32	40	10	16	20	25	32	40

halogen lamp

Type	Power	Quantity									
	w	Uniphase						Three-phase + interme			
With ballast compensator	250	7	11	14	17	22	21	33	42	51	66
	400	4	6	8	10	13	12	18	24	30	39
No ballast compensator	250	4	7	9	11	14	12	21	27	33	42
	400	3	4	6	7	9	9	12	18	21	27
Nominal current (A)		10	16	20	25(1)	32	40	16	20	25(1)	32
Busbar Category		RYM-Z1-16		RYM-Z1-25		RYM-Z1-40		RYM-Z1-16	RYM-Z1-25	RYM-Z1-40	

metal halide lamp

Type	Power	Quantity									
	w	Uniphase						Three-phase + interme			
With ballast compensator	150	11	17	22	27	35	33	51	66	851	105
	250	7	11	14	17	22	21	33	42	51	66
	400	4	7	9	11	14	12	21	27	33	42
No ballast compensator	150	5	8	11	13	17	15	24	33	39	51
	250	3	5	6	8	10	9	15	18	24	30
	400	2	3	4	5	6	3	9	12	15	18
Nominal current (A)		10	16	20	25(1)	32	40	16	20	25(1)	32
Busbar Category		RYM-Z1-16		RYM-Z1-25		RYM-Z1-40		RYM-Z1-16	RYM-Z1-25	RYM-Z1-40	

(1) For this type of class, if the nominal current is 25A, a bus with a rated current of 40A must be selected to meet the requirements of starting current

References (4)

- 1. The voltage drop data in the table below applies to single-phase copper cables. For three-phase cables, multiply the corresponding values by a factor of 0.866. If the rated current or cable length does not exactly match the listed values, use the nearest higher value.

Cable		Rated current		Cable length															
Sectional area	Current			m															
mm²	A	6	8	10	12	15	20	25	30	35	40	45	50	60	70	80	90	100	
1×1.5	10	1.4	1.9	2.4	2.9	3.6	4.8	6.0	7.2	8.4	9.6	11	12	14	17	19	24		
	16	2.3	3.1	3.9	4.6	5.8	7.7	9.6	12	13	15	17	19	23	27	31	39		
	20	2.9	3.9	4.8	5.7	7.2	9.6	12	14	17	19	22	24	29	34	39	48		
1×2.5	10	0.9	1.2	1.4	1.7	2.2	2.9	3.6	4.3	5.1	5.8	6.5	7.2	8.7	10	12	14		
	16	1.4	1.9	2.3	2.8	3.5	4.6	5.8	7.0	8.1	9.3	10	12	14	16	19	23		
	20	1.7	2.3	2.9	3.5	4.3	5.8	7.2	8.7	10	12	13	14	17	20	23	29		
	25	2.2	2.9	3.6	4.3	5.4	7.2	9.1	11	13	14	16	18	22	25	29	36		
1×4	16	0.9	1.2	1.5	1.7	2.2	2.9	3.6	4.4	5.1	5.8	6.5	7.3	8.7	10	12	15		
	20	1.1	1.5	1.8	2.2	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1	11	13	15	18		
	25	1.4	1.8	2.3	2.7	3.4	4.5	5.7	6.8	8.0	9.1	10	11	14	16	18	23		
	32	1.7	2.3	2.9	3.5	4.4	5.8	7.3	8.7	10	12	13	15	17	20	23	29		
	40	2.2	2.9	3.6	4.4	5.5	7.3	9.1	11	13	15	16	18	22	25	29	36		
1×6	16	0.6	0.8	1.0	1.2	1.5	2.0	2.4	2.9	3.4	3.9	4.4	4.9	5.9	6.8	7.8	9.8		
	20	0.7	1.0	1.2	1.5	1.8	2.4	3.0	3.7	4.3	4.9	5.5	6.1	7.3	8.5	9.8	12		
	25	0.9	1.2	1.5	1.8	2.3	3.0	3.8	4.6	5.3	6.1	6.9	7.6	9.1	11	12	15		
	32	1.2	1.6	2.0	2.3	2.9	3.9	4.9	5.9	6.8	7.8	8.8	9.8	12	14	16	20		
	40	1.5	2.9	2.4	2.9	3.7	4.9	6.1	7.3	8.5	9.8	11	12	15	17	20	24		
1×10	20	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.2	2.6	3.0	3.3	3.7	4.4	5.2	5.9	7.4		
	25	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.2	3.7	4.2	4.6	5.5	6.5	7.4	9.2		
	32	0.7	0.9	1.2	1.4	1.8	2.4	3.0	3.5	4.1	4.7	5.3	5.9	7.1	8.3	9.5	12		
	40	0.9	1.2	1.5	1.8	2.2	3.0	3.7	4.4	5.0	5.9	6.7	7.4	8.9	10	12	15		
	63	1.2	1.5	1.8	2.3	3.2	3.8	4.5	5.3	6.1	6.8	7.5	8.8	10.2	12	15	18		

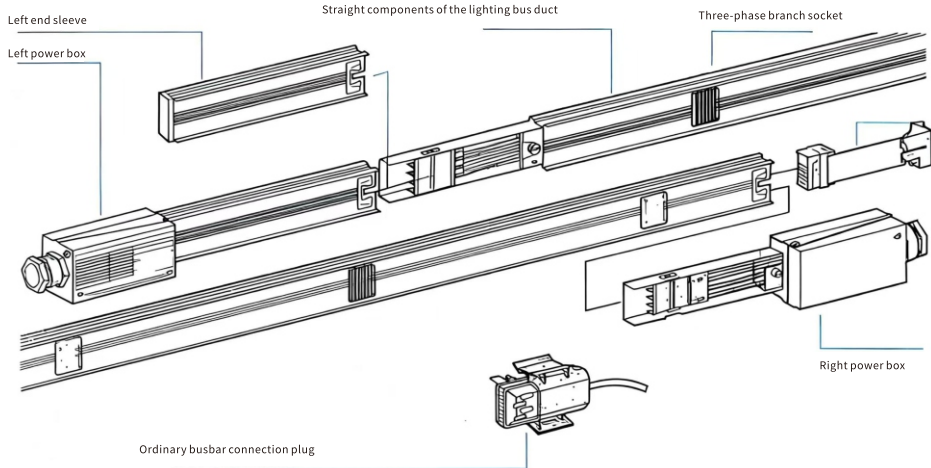
2.RYM-Z1 voltage drop

The data in the table below show the voltage drop in a single-phase circuit under uniform power distribution. For a three-phase power circuit, The voltage drop should be multiplied by the coefficient 0.866 accordingly. If the rated current or busbar length does not exactly match the values in the table, take the nearest larger value

Cable Sectional area mm ²	A	Rated current		Cable length															
		Current	6	8	10	12	15	20	25	30	35	40	45	50	60	70	80	90	100
RYM-Z1-16	10	0.4	0.6	0.7	0.9	1.1	1.5	1.6	2.2	2.6	2.9	3.3	3.7	4.7	5.1	5.9	7.3		
	16	0.7	0.9	1.2	1.4	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.9	7.0	8.2	9.4	11.7		
	20	0.9	1.2	1.5	1.8	2.2	2.9	3.7	4.4	5.1	5.9	6.6	7.3	8.8	10.3	11.7	14.7		
RYM-Z1-25	10	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.3	3.9	4.6	5.2	6.5		
	16	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.1	3.7	4.2	4.7	5.2	6.3	7.3	8.4	10		
	20	0.8	1.0	1.3	1.6	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5	7.8	9.1	10	13		
	25	1.0	1.3	1.6	2.0	2.5	3.3	4.1	4.7	5.7	6.5	7.4	8.2	9.8	11	13	16		
RYM-Z1-40	16	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	3.0	3.5	4.0	5.0		
	20	0.4	0.5	0.6	0.8	0.9	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.8	4.4	5.0	6.3		
	25	0.5	0.6	0.8	0.9	1.2	1.6	2.0	2.4	2.8	3.1	3.5	3.9	4.7	5.5	6.3	7.9		
	32	0.6	0.8	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.1	8.1	10		
	40	0.8	1.0	1.3	1.5	1.9	2.5	3.1	3.8	4.4	5.0	5.7	6.3	7.6	8.8	10	13		
RYM-Z1-63	20	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.7	2.0	2.3	2.5	3.0	3.5	4.0	5.0		
	25	0.3	0.4	0.5	0.6	0.9	1.0	1.3	1.5	1.8	2.2	2.5	3.0	3.6	4.2	4.8	6.1		
	32	0.4	0.5	0.6	0.7	1.2	1.1	1.5	1.7	2.0	2.5	2.8	3.6	4.2	4.9	5.7	6.8		
	40	0.5	0.6	0.8	0.9	1.5	1.3	1.6	1.8	2.1	2.6	2.9	3.8	4.5	5.2	6.0	7.3		
	63	0.7	0.8	1.0	1.1	1.3	1.5	1.8	2.0	2.3	2.8	3.1	4.2	5.1	6.1	7.3	9.0		

For other electrical parameters, please refer to the electrical characteristics data of each series of products

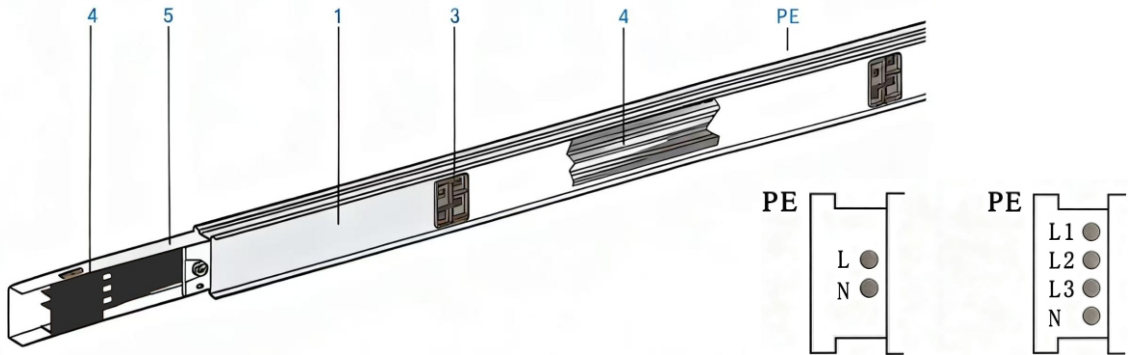
Product Summary



Character Description

Straight Component (main Body of Lighting Busbar)

Three standard sizes of rigid conductors: 16A,25A, and 63A. The RYM-Z1-16EA403, RYM-Z1-25EA403, RYM-Z1-40EA403, and RYM-Z1-63EA403 form the corecomponents of the lighting busbar. It provides dry power supply, support, and power distribution for lighting fixtures and socket boxes. The busbar features built-in 2-core or 4-core insulated busbars and comes in standard lengths.



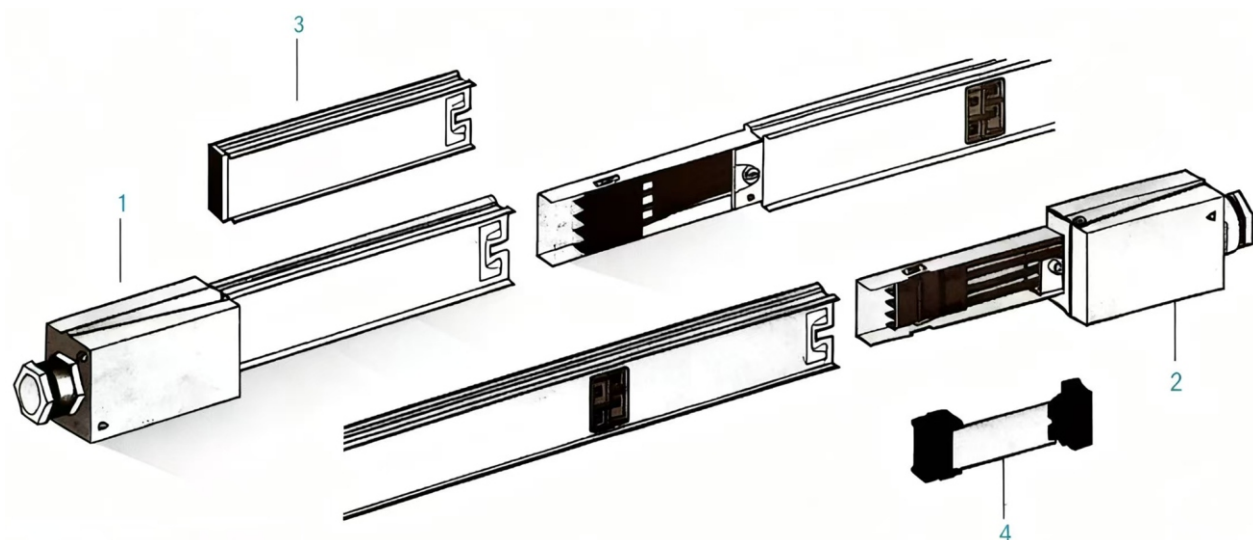
Lighting busbar main body

- 1、The rigid component housing is formed by primary drawing of hot-dip galvanized steel plate, serving as the skeleton carrier for the lighting busbar. The housing also functions as a PE conductor for grounding protection.
- 2、Flat cable row with two or four copper conductors.
- 3、Branch outlet with pitch (meter) -standard type; non-standard type per customer request
- 4、Connect the socket to ensure automatic connection of conductors within the busbar. The contacts are spring clip type to avoid stress on plastic parts.
- 5、The left end of the straight component features a mechanical locking and clamping mechanism that ensures rigidity during assembly. Thetwo straight components can be quickly assembled. Electrical continuity of the protective conductor (outer shell) is automatically guaranteed.Assembly is completed with a single locking screw. All insulating materials and plastic components exhibit excellent flame retardancy and insulation properties.

Power Box and Terminal Cover

The left power box supplies power to the lighting busbar through cables, while the right power box transmits power from the lighting busbar to other circuits or receives power from cables on the right side. Both units are mounted at the ends of vertical components, secured with spring bolts, and feature 10mm² wire terminals with sealed covers.

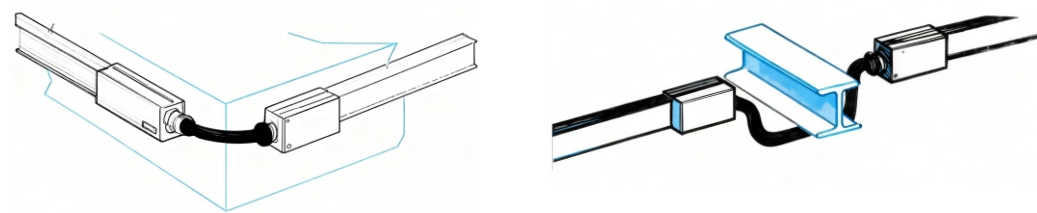
- 1、Left Power Box: RYM-Z1-63AA4 2. Right Power Box: RYM-Z1-63SL4
3、Left End Sleeve: RYM-Z1-63FA2 4. Right Terminal Cover: RYM-Z1-63FL2



Flexible joint (steering joint)

The RYM-Z1-63JR4 can be cut to the required size.

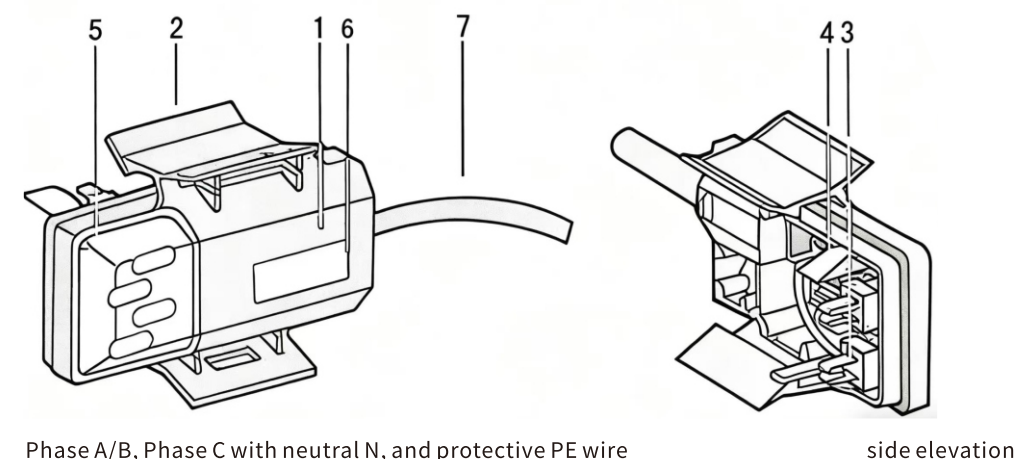
Through the connection of the flexible wire pipe between the left power box and the right power box, the bus can be turned at any angle and bypassed obstacles



Branch connector

Pre-installed BV-3X1mm cable for quick connection of lighting fixtures to the lighting busbar. Available in 10A and 16A rated current.

Rated current 10A-16A RYM-Z1-16CB210



Plug structural parts:

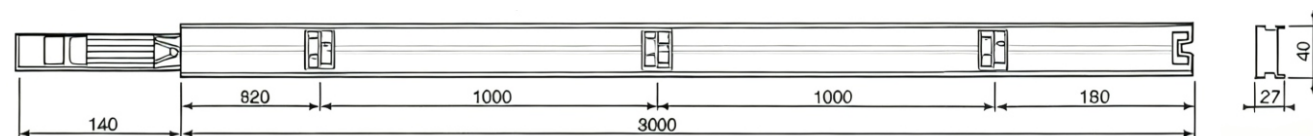
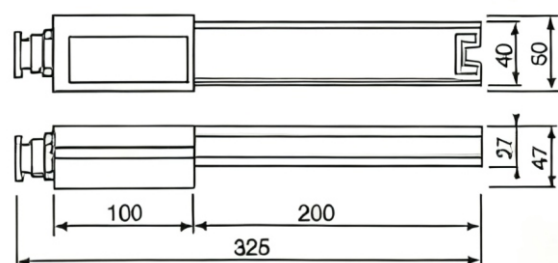
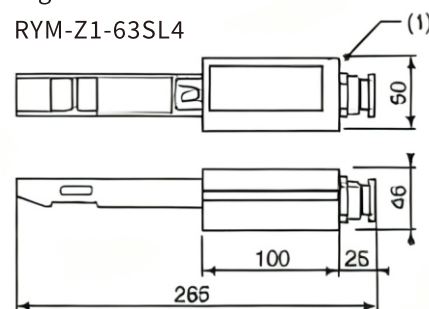
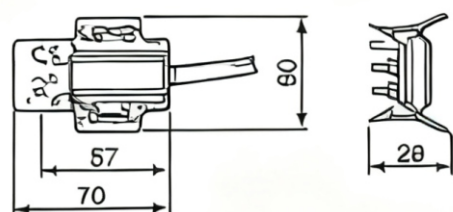
- 1、hull
- 2、Fixed Card
- 3、Phase and neutral line contacts
- 4、Protective wire contact
- 5、Transparent display cover for optional phase (optional phase type)
- 6、Mark (color corresponds to polarity) (non-selectable phase)
- 7、Pre-wired cable

characteristic :

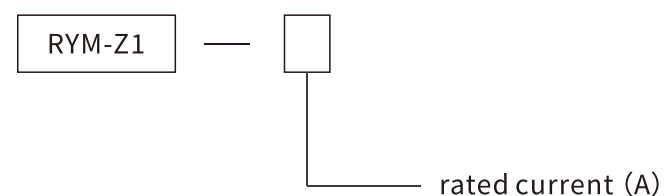
- All branch circuit connectors are single-phase: L+N+PE;
- It can be plugged in when there is electricity and load;
- The live wire L and neutral wire N contacts are clamp-type, ensuring no stress on the plug's plastic base;
- It has a device to prevent wrong insertion and prevent wrong connection;
- The PE protective conductor must be connected before the phase and neutral lines, contacting the inner surface of the busbar's straight component housing;
- Flame retardancy and insulation of plug and socket housing and insulation parts

Physical Dimensions

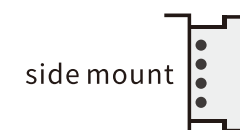
Straight member RYM-Z1-••EA•03


Left current box
RYM-Z1-63AA4

Right Current Box
RYM-Z1-63SL4

Support plug
RYM-Z1-10CC211


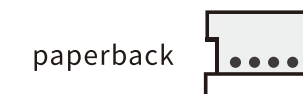
Product Model



Product Installation



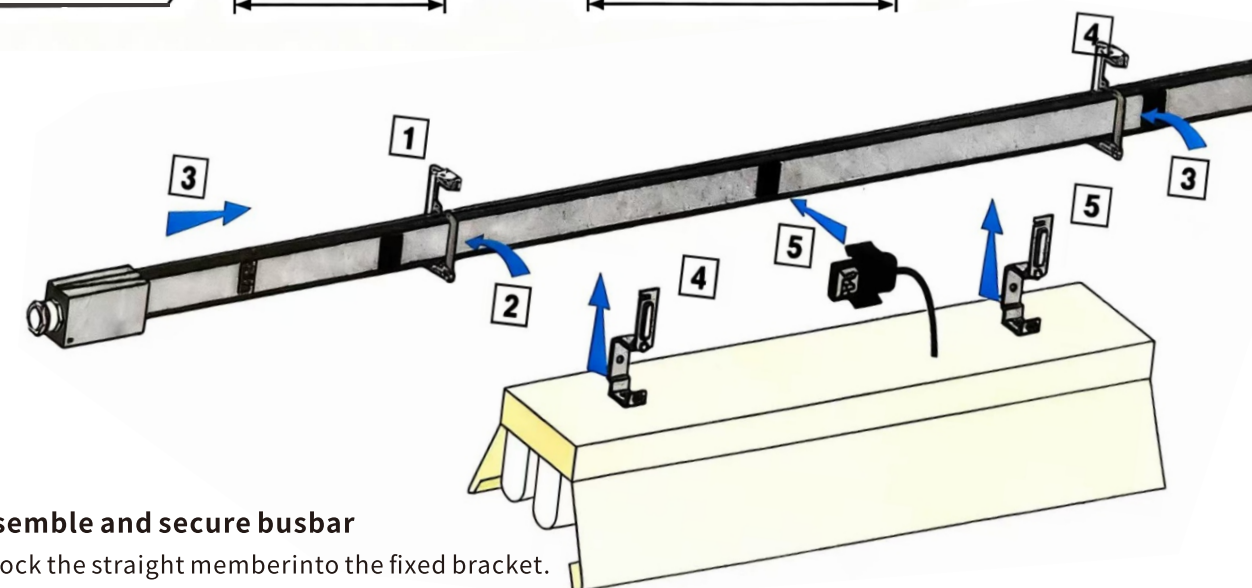
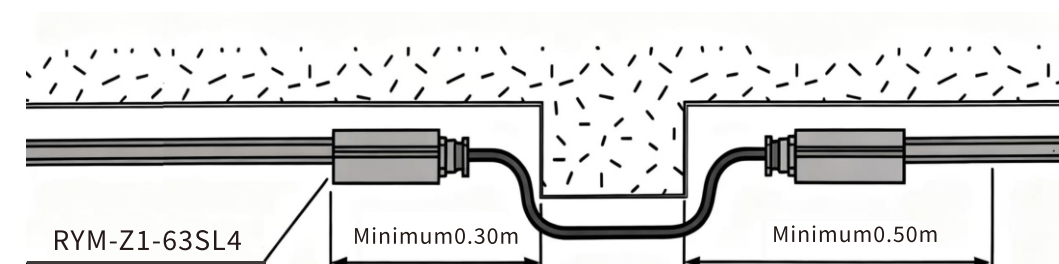
Busway can be fixed to metal frames, wooden beams, or concrete beams, as well as in suspended ceilings. The maximum fixed center spacing is 3 meters. This spacing can support a maximum load of 10kg with a maximum deviation of 8.5mm.



To save space, the busbar can be installed directly on the floor or ceiling. The fixed center spacing is up to 2.3 meters, which can carry a maximum load of 10kg with a maximum deviation of 8.5mm.

Connection between two busways

To connect two bus ducts separated by obstacles (such as beams or ducts), install an RYM-Z1-63SL4 intermediate connector at one end, a RYM-Z1-63AA4 power lock unit at the other, and connect them with cables in between.



Assemble and secure busbar

1. Lock the straight member into the fixed bracket.
2. Locked
3. Complete mechanical and electrical connections simultaneously

Install lighting fixtures

4. Lamp and support unit with hanging clip—clip to busbar
5. Easily complete electrical connections with standard plugs and sockets