



saipwell
斯普威尔

Products Manual

METAL ENCLOSURE

金属箱选型手册

金属箱选型手册
Metal Enclosure Products Manual

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To create products
that deliver happiness to everyone

—— 铸造充满幸福的产品 ——

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Us.

斯普威尔电气是赛普电气集团旗下的电气公司，是全球箱体领域的引领者。主要业务涉及电气机柜、IT机柜、成套电器和新能源产品等核心领域。自2006年成立以来，一直助力产品的提质升级，传递安全、智能和幸福的价值理念。

斯普威尔电气引进国外资深管理与经验丰富的专业人事，以严谨的管理、有创意的研发团队、先进的营销理念，在传统产品的基础上创造和发展了更具前沿感、设计感和良好性价比的产品。

斯普威尔电气设有3大营销公司，分别在上海宝山、广州增城、温州瓯江口；4大生产基地，分布在浙江温州、浙江乐清、浙江丽水、山东烟台；并拥有超过100家的代理和遍布全球的销售网络。

提供产品，更提供智慧。斯普威尔与多家国际化公司建立了良好的长期合作伙伴关系，并一如既往地坚持“合作发展，共同提高”的服务宗旨，以真诚的合作态度来最大程度地满足客户的需求，助力电气行业实现可持续发展的期望，确立全球市场的领先地位。

Saipwell Electricity is a subsidiary of Saip Electric Group and is a leader in the global enclosure market. Its main business involves the manufacturing of electrical and IT enclosures, assembly of whole electrical switchgear systems and development of enclosures for use in new energy solutions. Since our company's inception in 2006, we have been improving and upgrading the quality of our products as we work towards our goal of delivering happiness to our customers through their use of our safe and intelligent products.

Saipwell Electricity has been actively recruiting employees with management experience in both local and foreign companies. With this wealth of experience, creative marketing strategies and innovative R&D, we strive to create and develop more cutting-edge, cost-effective and well-designed products than their predecessors.

Saipwell Electricity has 3 authorized distributors in Baoshan (Shanghai), Zengcheng (Guangzhou), Oujiangkou (Wenzhou) and a total of 4 production sites in Wenzhou (Zhejiang), Yueqing (Zhejiang), Lishui (Zhejiang), Yantai (Shandong). We also have a global sales network of more than 100 agents supporting our customers worldwide.

We provide not just products, but also solutions to our customers. Saipwell has established good long-term partnerships with many international companies over the years. Together with our partners, we aim to achieve our mission of collective development and improvement by adopting a sincere attitude in meeting the needs of our customers; and in the process play a role in helping the Chinese electrical industry establish sustainable development and a leading position in the global electrical market.

BRAND STORY.

品牌故事

SAIPWELL ELEC.

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斯普威尔logo形似一只可爱灵动的海豚，用它的灵性与友好向世人传递着美好、快乐与幸福。

早在古希腊人们就很喜欢海豚，他们认为看到海豚在船周围的波浪中是一个好兆头。传说阿里翁曾被所乘船上的水手抢劫，被迫跳海，一只海豚被他的歌声打动，因而把他救上岸。直至今日，海豚这种大海里的精灵仍然深受全世界人民的喜爱，一直在人类文化中扮演着重要的角色。斯普威尔也有着海豚般的聪慧与友爱，在您最需要我们的时候为您提供最大的支持，用我们的灵感与智慧，用最靠谱的性格，成为您最真诚的伙伴。

The inspiration of our logo came from the cute-looking dolphin and its spirit of friendliness and ability to bring happiness to everyone around it.

Since ancient Greek times, dolphins are well-loved animals and it is thought to be a good sign if one sees them in the waves or waters. Legend has it that Arion was robbed by sailors in his boat and forced to jump into the sea. Moved by his singing, a dolphin rescued him to shore. Today, dolphins, the spirits of the sea, are loved by people all over the world and play an important role in human culture. Saipwell too, with a dolphin-like intelligence and friendship will provide you with the greatest support when you need it. Using our inspiration and knowledge, we hope to become your most reliable and sincere partner.

VISION.

公司愿景

SAIPWELL ELEC.

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“创领未来箱体”这一公司愿景恰恰反映了我们希望为世界带来积极的影响。斯普威尔拥有强大的研发设计能力，目前已拥有20余项箱体专利技术和著作权。最新落成的温州生产基地采用柔性钣金生产线（FMS），箱体的生产实现了自动上下料、自动切割、自动冲剪、机器人折弯、机器人焊接、交互式PU发泡和理光UV彩色打印。

专注研发生产和科技投入，这是斯普威尔扎根行业发展恒久不变的基调，未来的每一步成长，我们都愿意与您共同参与，相濡以沫，携手并进。

Creating Enclosures of the Future. This enterprise vision reflects our desire to make a positive impact on the world. Saipwell has strong R&D and design capabilities and currently has more than 20 enclosure design trademarks and technology patents. Our newly completed Wenzhou production base is fitted with an automated flexible sheet metal production line (FMS). Through automatic loading and unloading, automatic punching and cutting, robot bending, robot welding, interactive PU foaming and Ricoh UV color printing, product precision and costs efficiencies are achieved.

A focus on R&D and technological investments will continue to be cornerstones of Saipwell's development. We look forward to you participating in every step of our growth and making progress together, hand in hand.

铸造充满幸福的产品

To create products that deliver happiness to everyone





商业原则
BUSINESS
PRINCIPLE

做简单的生意 简单地做生意
To conduct business in a simple
straightforward manner.

企业精神
CORPORATE
SPIRIT

耐心 细心
Patience Dedication

Concept.

经营理念 

SAIPWELL ELEC.

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happiness to everyone

人生观
HUMAN
PRINCIPLE

客户至上 员工第一
Customers are our topmost priority,
followed by our employees and stakeholders

工作观
WORKING
PRINCIPLE

快乐工作 幸福生活
To work and live happily

产品观
PRODUCT
PRINCIPLE

文化电气 / 幸福电气 / 品质电气 / 信息电气 / 便捷电气
To manufacture quality, innovative products that bring
convenience to its users

Value

价值观 +

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平等——人人平等

拼搏——全力以赴，付出不亚于任何人的努力

创新——思想创新、产品创新、管理创新

信任——相信别人并敢于托付

感恩——活着就要感谢

利他——积善行，思利他

Equality - Everyone is equal

Fighting Spirit - Putting in the best effort in everything

Innovation - Innovative & creative product development and management

Trust - To trust and be trusted

Gratitude - Be grateful and appreciative

Altruism - Do good deeds and be considerate of others

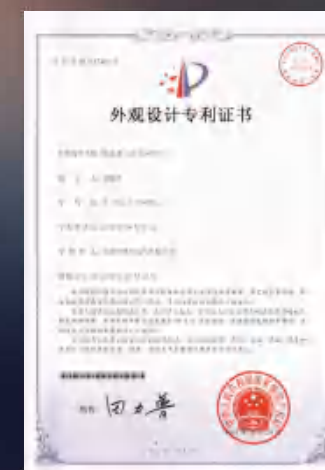


Honor

斯普威尔的证书 +

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EQUIPMENT

专业设备 +

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机器人焊接工艺是专业机柜生产不可或缺的，斯普威尔采用的机器人焊接包括顶底框型材焊接、小箱体焊接、门铰链及接地螺柱焊接。密封胶生产线使用了德国数控发泡技术，可确保密封胶条耐180度高温不硬化，沾漆不老化。斯普威尔拥有西门子数控系统、激光机、亚威冲剪复合机、机器人折弯机、福尼斯氩弧焊机、机器人激光焊接设备、静电喷涂线、台湾群昌自动包装机、拉丝机、打磨机，这些专业的技术生产设备保障了机柜的高质量输出与快速交付，为客户的交期负责是赛普的承诺。

The robotic welding process is essential in the production of professional cabinets, and Saipwell employs robotic welding techniques that cover welding of top and bottom frame profiles, welding of small enclosure bodies, welding of door hinges, and grounding screw welding. The sealing glue production line utilizes German CNC foaming technology to ensure that the sealing glue strip remains resistant to temperatures up to 180 degrees without hardening and does not age when exposed to paint.

Saipwell is equipped with Siemens CNC systems, laser machines, Yawei punching and shearing compound machines, robot bending machines, Fronius argon arc welding machines, robot laser welding equipment, electrostatic spraying lines, Taiwan Qunchang automatic packaging machines, wire drawing machines, polishing machines, and other specialized technical production equipment. These professional tools guarantee high-quality output and swift delivery of cabinets. Saipwell is committed to fulfilling its promise of being accountable for customer delivery schedules.



亚威柔性钣金生产线（FMS）



亚威激光切割机
(西门子数控+IPG发生器)



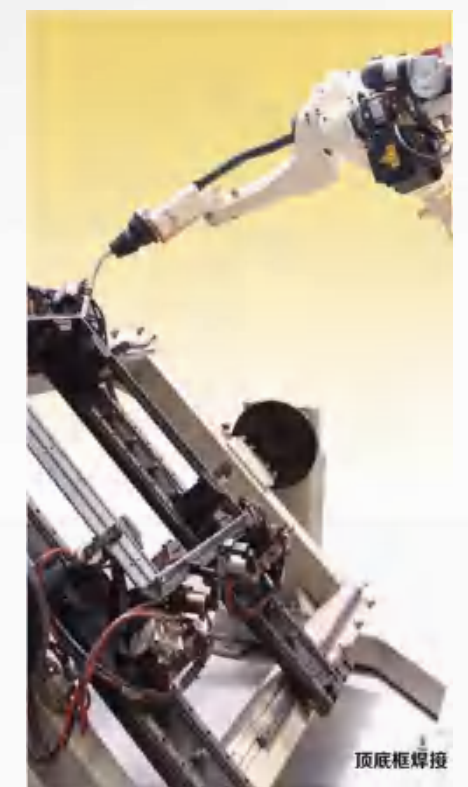
亚威机器人焊接



螺柱焊接



密封胶设备



顶底框焊接

METAL WATERPROOF ENCLOSURE

金属箱



SAIP ELECT.

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产品特点 Features of products

- PU发泡密封条确保箱体达到IP65的防护等级
 - 各种类型及尺寸的凸台确保进出线方便
 - 喷漆安装板也可在箱体外做布线用
 - 箱口多层保护槽不但起加固作用而且能防止门板打开时脏物和水进入箱内
 - 带双齿锁芯的专业锁系统开和关都极为便捷
- PU foaming sealing strip ensures a protection grade of IP65 to box body
 - Bosses of various types and sizes allow easy installation of inlet/outlet lines
 - Galvanized mounting plate can also be used for wiring outside the box
 - Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
 - Professional lock system with double-teeth cylinder allows easy locking/unlocking

规格参数
SPECIFICATION DATA

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPT202010	200	200	100	1.2	—
2	SPT252015	250	200	150	1.2	—
3	SPT302015	300	200	150	1.2	—
4	SPT302520	300	250	200	1.2	—
5	SPT403020	400	300	200	1.2	—
6	SPT503020	500	300	200	1.2	—
7	SPT503030	500	300	300	1.2	—
8	SPT504020	500	400	200	1.2	—
9	SPT505025	500	500	250	1.2	—
10	SPT604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
11	SPT604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
12	SPT605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
13	SPT605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
14	SPT705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
15	SPT705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
16	SPT806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
17	SPT806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPT1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
19	SPT1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
20	SPT12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
21	SPT12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners

材料 Material	箱体及前门采用冷轧钢板，安装板采用镀锌板 cold-rolled steel housing and front door, mounting plate made of Painted floor
表面处理 Surface treatment	热固粉末涂层、波纹饰面 Thermosetting powder coating, corrugated finish
防护等级 Protection	IP65(按GB4205-1993 EN60529) IP65 (acc. to GB4205-1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
抗冲击等级 Against mechanical impacts	IK10
颜色 Color	RAL7035
温度范围 Temperature range	-40℃ 至 +80℃ -40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



满焊工艺 做工扎实
Full welding process, solid workmanship



PU发泡，密封性能好，耐温性：-20℃ 至 +80℃
PU foam, good sealing performance, Temperature resistant from -20℃ to +80℃



一体压角成型，减少拼接
Integrated corner pressing process, reducing seams



材料 Material	箱体及前门采用冷轧钢板，安装板采用镀锌板 cold-rolled steel housing and front door, mounting plate made of Painted floor
表面处理 Surface treatment	热固粉末涂层、波纹饰面 Thermosetting powder coating, corrugated finish
防护等级 Protection	NEMA 4X 美国电气制造协会 (NEMA) 标准250-1991 NEMA 4X National Electrical Manufacturing Association (NEMA) Standard 250-1991
安装板 Mounting plate	镀锌底板 Galvanized sheet
抗冲击等级 Against mechanical impacts	IK10
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认证证书 Certification	



表面两层处理带来良好的防锈蚀保护
Two-layers surface process provides excellent anti-corrosion protection.



独特的排水设计，以防防水分被密封圈吸收影响密封效果
Specifically designed to remove water, so that moisture does not collect against the seal



安装板可通过拧紧组合螺栓和锁紧螺母进行简便的单人安装
The mounting plate can be easily installed by a single person using combination bolts and locknuts.



产品特点 Features of products

- 德国蓝浦发泡胶，更耐高温，弹性强，一体成型确保箱体达到NEMA 4X 防护等级；
 - 标准尺寸的穿线盖板孔，灵活的拆卸结构，方便后续的加工，采用环保防霉垫圈确保防护；
 - 镀锌安装底板，螺栓固定，易于拆卸组装；
 - 箱口多层保护槽不但起加固作用，而且能防止门板打开时脏物和水进入箱内；
 - MS705 双齿锁芯的专业锁系统，开和关都极为便捷
 - 符合UL标准的喷涂色粉，附着力更好，颜色更统一、色彩饱满
- German Rampf foam for high-temperature resistance and strong elasticity, ensuring NEMA 4X level protection.
 - Standard threading cover holes and flexible structure for easy processing and eco-friendly protection.
 - Galvanized bottom plate with bolt fixation for simple assembly.
 - Multi-layer protection at the box mouth to prevent ingress of dirt and water.
 - MS705 lock system for easy operation.
 - UL standard compliant powder coating with improved adhesion, uniform color, and full saturation.

规格参数
SPECIFICATION DATA

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPT-202015	200	200	150	1.5	—
2	SPT-302015	300	200	150	1.5	—
3	SPT-302520	300	250	200	1.5	—
4	SPT-403015	400	300	150	1.5	—
5	SPT-403020	400	300	200	1.5	—
6	SPT-404020	400	400	200	1.5	—
7	SPT-504020	500	400	200	1.5	—
8	SPT-504025	500	400	250	1.5	—
9	SPT-604020	600	400	200	1.5	门板带加强筋 Door panels with stiffeners
10	SPT-605025	600	500	250	1.5	门板带加强筋 Door panels with stiffeners
11	SPT-705025	700	500	250	2.0	门板带加强筋 Door panels with stiffeners
12	SPT-806030	800	600	300	2.0	门板带加强筋 Door panels with stiffeners
13	SPT-1008030	1000	800	300	2.0	门板带加强筋 Door panels with stiffeners

内门 Inner door

中门固定在箱子内部 可开孔定制，满足各种需求，外门可定制透明玻璃，方便观察内部情况。

The middle door is fixed inside the box and can be customized to meet various needs. The outer door can be customized with transparent glass to facilitate observation of the internal situation.

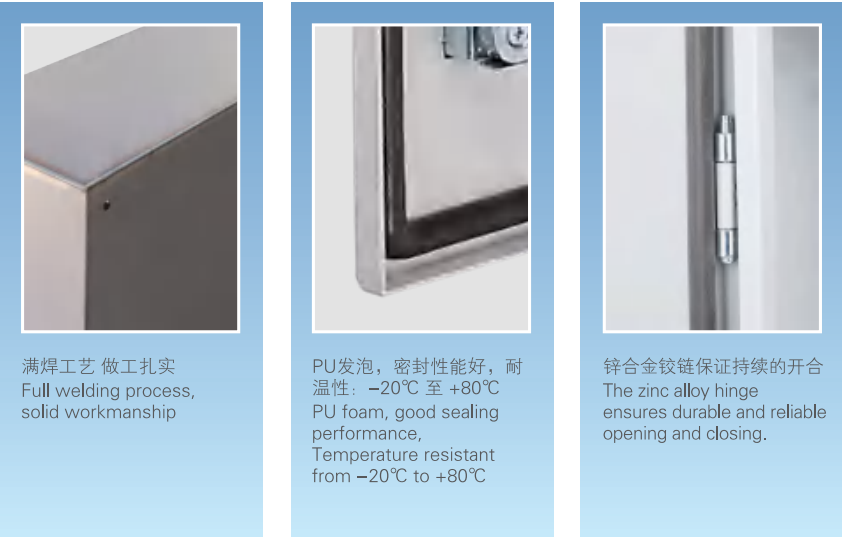
规格参数
SPECIFICATION DATA

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20	SPTS12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners



材料 Material	冷轧钢板 Cold Rolled Steel
表面处理 Surface treatment	热固粉末涂层、波纹饰面 Thermosetting powder coating, corrugated finish
防护等级 Protection	IP66(按GB4205—1993 EN60529) IP66 (acc. to GB4205—1993 EN60529)
配置 Mounting plate	箱体、中门、安装底板锁、密封圈及安装附件 Configuration: Body, Middle door, Mounting plate locks, Sealing ring and Accessories
颜色 Color	RAL7035
温度范围 Temperature range	−40℃ 至 +80℃ −40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle





产品特点 Features of products

- PU发泡密封条确保箱体达到IP65的防护等级
 - 各种类型及尺寸的凸台确保进出线方便
 - 镀锌安装板也可在箱体外做布线用
 - 箱口多层保护槽不但起加固作用而且能防止门板打开时脏物和水进入箱内
 - 带双齿锁芯的专业锁系统开和关都极为便捷
- PU foaming sealing strip ensures a protection grade of IP65 to box body
 - Bosses of various types and sizes allow easy installation of inlet/outlet lines
 - Galvanized mounting plate can also be used for wiring outside the box
 - Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
 - Professional lock system with double-teeth cylinder allows easy locking/unlocking

规格参数 SPECIFICATION DATA

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPB202010	200	200	100	1.2	—
2	SPB252015	250	200	150	1.2	—
3	SPB302015	300	200	150	1.2	—
4	SPB302520	300	250	200	1.2	—
5	SPB403020	400	300	200	1.2	—
6	SPB503020	500	300	200	1.2	—
7	SPB503030	500	300	300	1.2	—
8	SPB504020	500	400	200	1.2	—
9	SPB505025	500	500	250	1.2	—
10	SPB604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
11	SPB604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
12	SPB605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
13	SPB605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
14	SPB705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
15	SPB705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
16	SPB806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
17	SPB806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPB1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
19	SPB1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
20	SPB12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
21	SPB12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners

材料 Material	SUS304(其他材料型号可选) SUS304 (other material types are option)
表面处理 Surface treatment	拉丝处理 Wire drawing
防护等级 Protection	IP65(按GB4205—1993 EN60529) IP65 (acc. to GB4205—1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
标准配置 Standard configuration	门板、箱体、密封条、接地套件、安装板、门锁 Door plate, box body, sealing strip, grounding set, mounting plate, door lock
抗冲击等级 Against mechanical impacts	IK10
温度范围 Temperature range	−40℃ 至 +80℃ −40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



接地保护可以方便的使用能够接触到箱体上的接地螺栓
Earthing is easily achieved using the accessible grounding bolts on the enclosure.



细腻的拉丝纹理不仅突显了产品的精致质感，还增强了其抗指纹和抗刮擦的能力
The brushed texture enhances the product's quality and improves resistance to fingerprints and scratches.



焊道经过精细清洗，去除了焊接过程中产生的氧化物和杂质，确保焊接点光滑均匀，增强抗腐蚀性能
Weld seam cleaning removes impurities, ensuring smooth welds and improved corrosion resistance.



材料 Material	SUS304(其他材料型号可选) SUS304 (other material typesare option)
表面处理 Surface treatment	拉丝 处理 Wire drawing
防护等级 Protection	NEMA 4X 美国电气制造协会 (NEMA) 标准250-1991 NEMA 4X National Electrical Manufacturing Association (NEMA) Standard 250-1991
安装板 Mounting plate	镀锌底板 Galvanized sheet
标准配置 Standard configuration	门板、箱体、密封条、接地套件、安装板、门锁 Door plate, box body, sealing strip, grounding set, mounting plate, door lock
抗冲击等级 Against mechanical impacts	IK10
温度范围 Temperature range	-40℃ 至 +80℃ -40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle
认证证书 Certification	

封盖板通过自贡螺丝与箱体固定，简单，快速
Gland plate is secured to the enclosure with self-tapping screws, making the process simple and quick

标配通用安全圆柱锁芯，提供多种锁具系统选择以满足不同需求
Standard universal cylindrical lock, optional locking systems for diverse needs.

满焊工艺 做工扎实
Full welding process, solid workmanship



产品特点 Features of products

- 德国蓝浦发泡胶，更耐高温，弹性强，一体成型确保箱体达到NEMA 4X 防护等级；
 - 标准尺寸的穿线盖板孔，灵活的拆卸结构，方便后续的加工，采用环保防垫圈确保防护；
 - 镀锌安装底板，螺栓固定，易于拆卸组装；
 - 箱口多层保护槽不但起加固作用，而且能防止门板打开时脏物和水进入箱内；
 - MS705 双齿锁芯的专业锁系统，开和关都极为便捷
- German Rampf foam for high-temperature resistance and strong elasticity, ensuring NEMA 4X level protection.
 - Standard threading cover holes and flexible structure for easy processing and eco-friendly protection.
 - Galvanized bottom plate with bolt fixation for simple assembly.
 - Multi-layer protection at the box mouth to prevent ingress of dirt and water.
 - MS705 lock system for easy operation

规格参数
SPECIFICATION DATA

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPB-202015	200	200	150	1.5	-
2	SPB-252010	250	200	100	1.5	-
3	SPB-302015	300	200	150	1.5	-
4	SPB-302515	300	250	150	1.5	-
5	SPB-303020	300	300	200	1.5	-
6	SPB-403015	400	300	150	1.5	-
7	SPB-403020	400	300	200	1.5	-
8	SPB-404020	400	400	200	1.5	-
9	SPB-504020	500	400	200	1.5	-
10	SPB-536130	535	610	300	1.5	-
11	SPB-605025	600	500	250	1.5	门板带加强筋 Door panels with stiffeners
12	SPB-705025	700	500	250	2.0	门板带加强筋 Door panels with stiffeners
13	SPB-806030	800	600	300	2.0	门板带加强筋 Door panels with stiffeners
14	SPB-1008030	1000	800	300	2.0	门板带加强筋 Door panels with stiffeners



金属门带中门
Metal door with inner door



透明盖带中门
transparent cover with inner door

材料 Material	SUS304(其他材料型号可选) SUS304 (other material typesare option)
表面处理 Surface treatment	拉丝处理 Wire drawing
防护等级 Protection	IP66(按GB4205–1993 EN60529) IP66 (acc. to GB4205–1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
标准配置 Standard configuration	门板、箱体、密封条、接地套件、安装板、门锁 Door plate, box body, sealing strip, grounding set, mounting plate, door lock
抗冲击等级 Against mechanical impacts	IK10
温度范围 Temperature range	–40℃ 至 +80℃ –40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



接地保护可以方便的使用能够接触到箱体上的接地螺栓
Earthing is easily achieved using the accessible grounding bolts on the enclosure.



标配通用安全圆柱锁芯，提供多种锁具系统选择以满足不同需求
Standard universal cylindrical lock, optional locking systems for diverse needs.



焊道经过精细清洗，去除了焊接过程中产生的氧化物和杂质，确保焊接点光滑均匀，增强抗腐蚀性
Weld seam cleaning removes impurities, ensuring smooth welds and improved corrosion resistance.



内门 Inner door

中门固定在箱子内部 可开孔定制，满足各种需求，外门可定制透明玻璃，方便观察内部情况。

The middle door is fixed inside the box and can be customized to meet various needs. The outer door can be customized with transparent glass to facilitate observation of the internal situation.

规格参数
SPECIFICATION DATA

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPBS252015	250	200	150	1.2	—
2	SPBS302015	300	200	150	1.2	—
3	SPBS302520	300	250	200	1.2	—
4	SPBS403020	400	300	200	1.2	—
5	SPBS503020	500	300	200	1.2	—
6	SPBS503030	500	300	300	1.2	—
7	SPBS504020	500	400	200	1.2	—
8	SPBS505025	500	500	250	1.2	—
9	SPBS604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
10	SPBS604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
11	SPBS605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
12	SPBS605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
13	SPBS705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
14	SPBS705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
15	SPBS806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
16	SPBS806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
17	SPBS1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPBS1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
19	SPBS12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
20	SPBS12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners



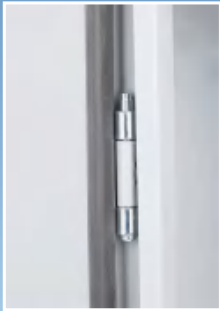
材料 Material	箱体及前门采用冷轧钢板，安装板采用喷漆底板 cold-rolled steel housing and front door, mounting plate made of Painted floor
表面处理 Surface treatment	热固粉末涂层、波纹饰面 Thermosetting powder coating, corrugated finish
防护等级 Protection	IP66(按GB4205-1993 EN60529) IP66 (acc. to GB4205-1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
抗冲击等级 Against mechanical impacts	IK10
颜色 Color	RAL7035
温度范围 Temperature range	-40℃ 至 +80℃ -40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



防雨棚
防止雨水直接流入
Awning
Prevent rainwater entering directly



PU发泡，密封性能好，耐温性：-20℃ 至 +80℃
PU foam, good sealing performance, Temperature resistant from -20℃ to +80℃



锌合金铰链保证持续的开合
The zinc alloy hinge ensures durable and reliable opening and closing.



产品特点 Features of products

- PU发泡密封条确保箱体达到IP66的防护等级
 - 各种类型及尺寸的凸台确保进出线方便
 - 喷漆安装板也可在箱体外做布线用
 - 箱口多层保护槽不但起加固作用而且能防止门板打开时脏物和水进入箱内
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 - Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
 - Professional lock system with double-teeth cylinder allows easy locking/unlocking

规格参数

SPECIFICATION DATA

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPW252015	250	200	150	1.2	—
2	SPW302015	300	200	150	1.2	—
3	SPW302520	300	250	200	1.2	—
4	SPW403020	400	300	200	1.2	—
5	SPW503020	500	300	200	1.2	—
6	SPW503030	500	300	300	1.2	—
7	SPW504020	500	400	200	1.2	—
8	SPW505025	500	500	250	1.2	—
9	SPW604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
10	SPW604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
11	SPW605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
12	SPW605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
13	SPW705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
14	SPW705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
15	SPW806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
16	SPW806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
17	SPW1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPW1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
19	SPW12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
20	SPW12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners



产品特点 Features of products

- PU发泡密封条确保箱体达到IP66的防护等级
 - 各种类型及尺寸的凸台确保进出线方便
 - 镀锌安装板也可在箱体外做布线用
 - 箱口多层保护槽不但起加固作用而且能防止门板打开时脏物和水进入箱内
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 - Bosses of various types and sizes allow easy installation of inlet/outlet lines
 - Galvanized mounting plate can also be used for wiring outside the box
 - Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
 - Professional lock system with double-teeth cylinder allows easy locking/unlocking

规格参数
SPECIFICATION DATA

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序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPBW252015	250	200	150	1.2	—
2	SPBW302015	300	200	150	1.2	—
3	SPBW302520	300	250	200	1.2	—
4	SPBW403020	400	300	200	1.2	—
5	SPBW503020	500	300	200	1.2	—
6	SPBW503030	500	300	300	1.2	—
7	SPBW504020	500	400	200	1.2	—
8	SPBW505025	500	500	250	1.2	—
9	SPBW604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
10	SPBW604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
11	SPBW605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
12	SPBW605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
13	SPBW705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
14	SPBW705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
15	SPBW806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
16	SPBW806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
17	SPBW1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPBW1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
19	SPBW12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
20	SPBW12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners

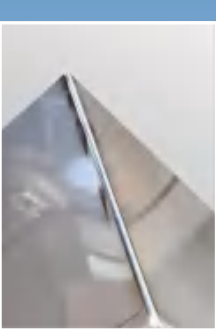
材料 Material	SUS304(其他材料型号可选) SUS304 (other material typesare option)
表面处理 Surface treatment	拉丝处理 Wire drawing
防护等级 Protection	IP66(按GB4205—1993 EN60529) IP66 (acc. to GB4205—1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
标准配置 Standard configuration	门板、箱体、密封条、接地套 件、安装板、门锁 Door plate, box body, sealing strip, grounding set, mounting plate, door lock
抗冲击等级 Against mechanical impacts	IK10
温度范围 Temperature range	—40℃ 至 +80℃ —40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在左侧 Cover holes at the bottom, hinges on the left
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



防雨棚
防止雨水直接流入
Awning
Prevent rainwater entering directly



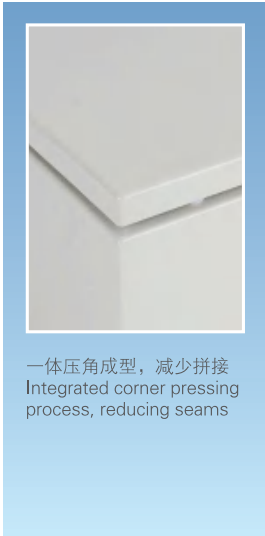
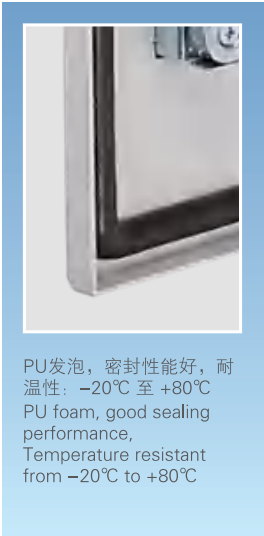
接地保护可以方便的使用
能够接触到箱体上的接地
螺栓
Earthing is easily achieved using the accessible grounding bolts on the enclosure.



满焊工艺 做工扎实
Full welding process, solid workmanship



材料 Material	箱体及前门采用冷轧钢板，安装板采用喷漆底板 cold-rolled steel housing and front door, mounting plate made of Painted floor
表面处理 Surface treatment	热固粉末涂层、波纹饰面 Thermosetting powder coating, corrugated finish
防护等级 Protection	IP55(按GB4205-1993 EN60529) IP55 (acc. to GB4205-1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
抗冲击等级 Against mechanical impacts	IK10
颜色 Color	RAL7035
温度范围 Temperature range	-40℃ 至 +80℃ -40℃ to +80℃
开门方式 Door opening method	盖板孔在底部，铰链在两侧 Cover holes at the bottom, hinges on both sides
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle



产品特点 Features of products

- PU发泡密封条确保箱体达到IP66的防护等级
 - 各种类型及尺寸的凸台确保进出线方便
 - 喷漆安装板也可在箱体外做布线用
 - 箱口多层保护槽不但起加固作用而且能防止门板打开时脏物和水进入箱内
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 - Professional lock system with double-teeth cylinder allows easy locking/unlocking

规格参数 SPECIFICATION DATA

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	高 Height	宽 Width	深 Depth	壁厚 Wall Thickness	备注 Remarks
1	SPD604020	600	400	200	1.2	门板带加强筋 Door panels with stiffeners
2	SPD604025	600	400	250	1.2	门板带加强筋 Door panels with stiffeners
3	SPD605020	600	500	200	1.2	门板带加强筋 Door panels with stiffeners
4	SPD605025	600	500	250	1.2	门板带加强筋 Door panels with stiffeners
5	SPD6010020	600	1000	200	1.2	门板带加强筋 Door panels with stiffeners
6	SPD6010030	600	1000	300	1.2	门板带加强筋 Door panels with stiffeners
7	SPD705020	700	500	200	1.2	门板带加强筋 Door panels with stiffeners
8	SPD705025	700	500	250	1.2	门板带加强筋 Door panels with stiffeners
9	SPD806025	800	600	250	1.5	门板带加强筋 Door panels with stiffeners
10	SPD806030	800	600	300	1.5	门板带加强筋 Door panels with stiffeners
11	SPD8010030	800	1000	300	1.5	门板带加强筋 Door panels with stiffeners
12	SPD8012030	800	1200	300	1.5	门板带加强筋 Door panels with stiffeners
13	SPD1006030	1000	600	300	1.5	门板带加强筋 Door panels with stiffeners
14	SPD1008030	1000	800	300	1.5	门板带加强筋 Door panels with stiffeners
15	SPD10010020	1000	1000	200	1.5	门板带加强筋 Door panels with stiffeners
16	SPD10012030	1000	1200	300	1.5	门板带加强筋 Door panels with stiffeners
17	SPD12010030	1200	1000	300	1.5	门板带加强筋 Door panels with stiffeners
18	SPD12010040	1200	1000	400	1.5	门板带加强筋 Door panels with stiffeners
19	SPD12012040	1200	1200	400	1.5	门板带加强筋 Door panels with stiffeners

产品特点 Features of products

- 三层表面抗腐蚀防护处理提供最佳的抗腐蚀保护
 - 无缝发泡式PU密封圈可提供永久性的高防护等级经
 - 多重折边的箱体防护槽可对箱体进行保护，在开门时阻止脏物和水侵入
 - 通过带钻孔的后板可实现简便的壁挂式安装，适用于墙壁固定支架或直接的壁挂式安装
 - 为自行在节点板进行电缆布线或更换预制封盖板提供最大的灵活性
 - 通过用于内部加装的导轨实现个性化的深度加装
 - 在单门机柜上无需通过机械加工，可实现快速门铰链更换
 - 通过门上的安装孔板可实现简单快速地安装配件，例如：安装桥片或电缆导管架
- Sheet steel enclosure dipcoat-primed and powder-coated for high corrosion protection.
 - Sheet steel gland plates for self-assembly may be exchanged for various prepunched plates for simple cable entry.
 - Labelled mounting plate for simple, flexible installation options.
 - Rear face with holes, prepared for wall mounting bracket or direct wall mounting.
 - System mounting block for additional, individual depth population.
 - Multi-folded enclosure protection channel prevents the ingress of dirt and water when the door is opened.
 - Perforated mounting strips in the door for fast attachment of support strips, cable conduit holders and covers.
 - PE conductor connection facilities on the enclosure, door and mounting plate.
 - Interchangeable door hinge with no need for machining in single-door enclosures.

SAE系列订货规格表

SAE series order specification table

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号 Order number	宽 Width	高 Height	深 Depth	安装板尺寸 (mm) Mounting Plate Size (mm)	单/双开门 Number of doors	箱体厚度 Enclosure Thickness	门厚度 Door Thickness	安装板厚度 Plate Thickness
1	SAE203012005	200	300	120	149*270	单开门 1	1.5	1.5	2
2	SAE303015005	300	300	155	249*270	单开门 1	1.5	1.5	2
3	SAE383015005	380	300	155	329*270	单开门 1	1.5	1.5	2
4	SAE303021005	300	300	210	249*270	单开门 1	1.5	1.5	2
5	SAE383021005	380	300	210	329*270	单开门 1	1.5	1.5	2
6	SAE386021005	380	600	210	249*570	单开门 1	1.5	1.5	2.5
7	SAE606021005	600	600	210	549*570	单开门 1	1.5	2	2.5
8	SAE607621005	600	760	210	549*730	单开门 1	1.5	2	3
9	SAE1007621005	1000	760	210	949*730	双开门 2	1.5	2	3
10	SAE507025005	500	700	250	449*670	单开门 1	1.5	2	2.5
11	SAE608025005	600	800	250	549*770	单开门 1	1.5	2	3
12	SAE767630005	760	760	300	709*730	单开门 1	1.5	2	3
13	SAE801230005	800	1200	300	749*1170	单开门 1	1.5	2	3
14	SAE101230005	1000	1200	300	949*1170	双开门 2	1.5	2	3
15	SAE607635005	600	760	350	549*730	单开门 1	1.5	2	3

材料 Material	冷轧钢板 Cold rolled steel sheet
表面处理 Surface treatment	箱体和门板磷化底涂处理，外部为粉末涂层 Etch primer for box body and door plate; powder coating for outside
防护等级 Protection	IP66(按GB4205-1993 EN60529) IP66 (acc. to GB4205-1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
颜色 Color	RAL7035
标准配置 Standard configuration	门板、箱体、密封条、接地套件、安装板、门锁、运输吊环(可选) Door plate, box body, sealing strip, grounding set, mounting plate, door lock, lifting ring (option)
钢板厚度 Plate thickness	箱体: 1.5, 2.0(可选) 门板: 2.0mm 安装板: 标配2.5mm Box body: 1.5mm Door plate: 2.0mm Mounting plate: standard 2.5mm
开门方式 Door opening method	盖板孔在底部，铰链在右侧 Cover holes at the bottom, hinges on the right
可选附件 Optional accessories	接地线，金属挂角，不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle
认证证书 Certification	



产品特点 Features of products

- PU发泡的密封条确保箱体达到IP66的防护等级
 - 加宽的箱体边框、承重铰链、门板方管加强筋确保箱体系统的高强度
 - 可选3.0mm的镀锌安装板和高强度的安装板支架确保安装器件的可靠性（可在箱外做布线用）
 - 底部进出线装置确保进出线的灵活方便
 - 可选的不锈钢运输吊环系统确保运输的方便快捷
 - 表面拉丝处理（高档箱体内部可做喷砂处理）
- PU foaming sealing strip ensures a protection grade of IP66 to box body
 - Widened box frame, bearing hinge and door plate square tube stiffener ensures high strength of the box body
 - The Optional 3.0 mm galvanized plate and the high strength mounting plate bracket ensure the reliability of the installation device (can use for wiring outside the cabinet).
 - The Outlet and inlet wires of the device at the bottom ensure the flexible and convenient of the outlet and inlet wire.
 - The optional stainless steel transportation flying rings system ensures fast and convenience of the transportation.
 - The surface wire drawbench processing (the sandblasting processing can be available in the high-grade cabinets)

BAE系列订货规格表

BAE series order specification table

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号(BAE) Order number (BAE)	宽 Width	高 Height	深 Depth
1	BAE8010300304	800	1000	300
2	BAE8012300304	800	1200	300
3	BAE1010300304	1000	1000	300
4	BAE1012300304	1000	1200	300
5	BAE6012400304	600	1200	400
6	BAE8012400304	800	1200	400
7	BAE1212400304	1200	1200	400

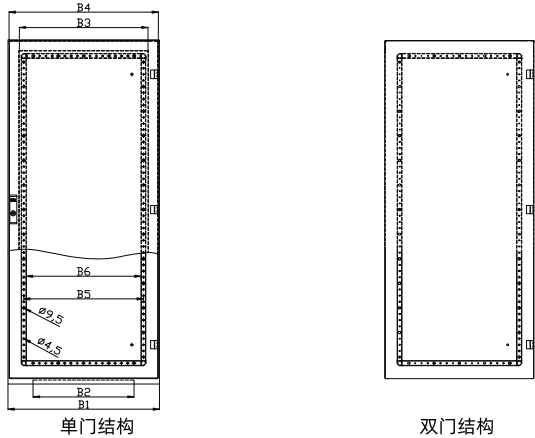
SAE/BAE系列尺寸规格表

SAE/BAE series dimensions table

规格尺寸 Dimensions			宽 Width						高 Height		深 Depth		安装板 Mounting plate	
宽 width	高 height	深 depth	B1	B2	B3	B4	B5	B6	H1	H2	T1	T2	F	G
800	1000	300	800	600	710	792	674	654	1000	975	300	275	700	900
800	1200	300	800	600	710	792	674	654	1200	1175	300	275	700	1100
1000	1000	300	1000	800	910	992	874	854	1000	975	300	275	900	900
1000	1200	300	1000	800	910	992	874	854	1200	1175	300	275	900	1100
600	1200	400	600	400	510	592	474	454	1200	1175	400	375	500	1100
800	1200	400	800	600	710	792	674	654	1200	1175	400	375	700	1100
1200	1200	400	1200	400*2	1110	593.5*2	474	454	1200	1175	400	375	1100	1100

SAE/BAE系列细节图

SAE/BAE series detail drawing



B1: 总宽度
B2: 底板进线宽度(柜宽≥1200, 底部进线板分左
右2部分)
B3: 箱体框架内档净宽度
B4: 门板宽度
B5: 门板后部方管加强筋安装中心尺寸
B6: 门板后部方管加强筋内档尺寸
H1: 柜体高度
H2: 门板高度
T1: 柜体总深度
T2: 柜体不含门板深度
F: 安装板宽度
G: 安装板高度

B1: Total width
B2: Wiring insert width of the bottom plate (cabinet
width ≥ 1200, wiring insert plate in the bottom
divides into left and right 2 parts)
B3: Net width of the cabinet framework
B4: Door plate width
B5: The center size of the square tube reinforcing rib
installation in the back of door plate
B6: The interior size of the square tube reinforcing
rib in the back of door plate
H1: Cabinet height
H2: Door plate height
T1: Cabinet total depth
T2: cabinet depth without door plate
F: Mounting plate width
G: Mounting plate height

*B1: 宽度≥1100的2.5镀锌安装板在中间另加固定方式。
*B1: 2.5 galvanized mounting plate with width ≥1100 is additionally
fixed at the center.

材料 Material	SUS304(其它材料型号可选) SUS304 (other material types are option)
表面处理 Surface treatment	拉丝 Wire drawing
防护等级 Protection	IP66(按GB4205–1993 EN60529) IP66 (acc. to GB4205–1993 EN60529)
安装板 Mounting plate	镀锌底板 Galvanized sheet
标准配置 Standard configuration	门板、箱体、密封条、接地套 件、安装板、门锁 Door plate, box body, sealing strip, grounding set, mounting plate, door lock
钢板厚度 Plate thickness	箱体: 1.5, 2.0(可选) 门板: 2.0mm 安装板: 2.5mm Box body: 1.5mm Door plate: 2.0mm Mounting plate: 2.5mm
开门方式 Door opening method	盖板孔在底部, 铰链在右侧 Cover holes at the bottom, hinges on the right
可选附件 Optional accessories	接地线, 金属挂角, 不锈钢挂角 Ground wire, metal hanging angle, stainless steel hanging angle
认证证书 Certification	CE SGS



不锈钢门锁
Stainless steel door



坚固的门板方管加强筋
Firm door plate square
tube stiffener



锌合金130度承重铰链
Zinc alloy 130o bearing
hinge



SDR16F

SDR32F

SDR64F



SDR48S

SDR48F

产品特点 Features of products

- 安装方便
 - 可拆卸DIN底盘
 - 高度可调的DIN底盘
 - 两排中间距离为150mm
 - 门板可拆卸
 - 可拆卸的顶部和底部压盖板
 - 1.2mm厚钢板，环氧粉末，涂层RAL 9002
 - 只适用于模组化的进出线
- Easy to install
 - Removable DIN chassis
 - Height adjustable DIN chasis
 - Centre distance between two rows is 150 mm
 - Removable door
 - Removable prepunched top and bottom gland plates
 - 1.2mm thickness sheet steel with Epoxy powder coating in RAL 9002
 - Suitable for modular incomers and outgoings only
 - Accessories like key lock,joining kits, etc.
 - Boards can be assembled vertically

规格参数
SPECIFICATION DATA

安装方式 Installation Type	订货号 Order number	外形尺寸 Dimension (mm) W*H*D	安装尺寸 Mounting Dimension(mm) W*H*D	导轨数量 No. of rows	模块数量 No. of Modules	描述 Description
暗装 Cat. Ref. Concealed mounted	SDR16F	431.6*351.6*112.5	400*320*110	1	16	16 – 96 模块 DIN Rail Distribution boards 16 module
	SDR32F	431.6*501.6*112.5	400*470*110	2	32	
	SDR48F	431.6*651.6*112.5	400*620*110	3	48	
	SDR64F	431.6*800.6*112.5	400*770*110	4	64	
	SDR80F	431.6*950.6*112.5	400*920*110	5	80	
	SDR96F	431.6*1100.6*112.5	400*1070*110	6	96	
	SDR424F	600*800*113	570*770*110	4	96	96 – 144模块 DIN Rail Distribution boards 24 module
	SDR524F	600*950*113	570*920*110	5	120	
	SDR624F	600*1100*113	570*1070*110	6	144	
明装 Cat. Ref.Surface mounted	SDR16S	406.6*326.6*112.5	400*320*110	1	16	16 – 96 模块 DIN Rail Distribution boards 16 module
	SDR32S	406.6*476.6*112.5	400*470*110	2	32	
	SDR48S	406.6*626.6*112.5	400*620*110	3	48	
	SDR64S	406.6*776.6*112.5	400*770*110	4	64	
	SDR80S	406.6*926.6*112.5	400*920*110	5	80	
	SDR96S	406.6*1076.6*112.5	400*1070*110	6	96	
	SDR424S	576*776*113	570*770*110	4	96	96 – 144模块 DIN Rail Distribution boards 24 module
	SDR524S	576*926*113	570*920*110	5	120	
	SDR624S	576*1076*113	570*1070*110	6	144	

CONNECTION BOX SERIES

接线箱系列



SAIP ELECT.

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Deliver happiness to everyone



SKL

SKL JUCTION BOX
SKL 接线箱



材料 Material	冷轧钢板 Cold rolled steel sheet
表面处理 Surface treatment	箱体和门板磷化底涂处理，外部为粉末涂层，颜色可分RAL7032和RAL7035两种织纹 Etch primer for box body and door plate; powder coating for outside; RAL7032 or RAL7035 texture optional
防护等级 Protection	IP66(按GB4205—1993 EN60529) IP66 (acc. to GB4205—1993 EN60529)
标准配置 Standard configuration	门板、箱体、密封条、箱盖螺钉、安装板(可选) Door plate, box body, sealing strip, cover screw, mounting plate (option)
钢板厚度 Plate thickness	箱体: 1.2—1.5mm 门板: 1.5mm 安装板: 2.5mm Box body: 1.2—1.5mm Door plate: 1.5mm Mounting plate: 2.5mm



安装板
镀锌安装板(可选件)
Mounting plate
Galvanized mounting plate (option)



壁挂件
Wall mounting parts



支撑轨
可支撑接线板和输配电设备
Supporting rail
To support connection box and power transmission/distribution equipment

产品特点 Features of products

- 门板与箱体采用专用螺钉和护圈按通用标准安装，不但确保防护等级而且确保箱体在极狭小空间使用及维护
 - 箱口多层保护槽不但能起加固作用而且能防止门板打开时脏物和水进入箱内
 - PU发泡密封条确保箱体防护等级达到IP66
 - 接地线可连接箱体和门板
 - 箱体两侧配有开有螺丝孔的支架条，确保最大的安装高度，并可以安装支撑轨或安装板
 - 特制的塑料绝缘套管不但能够密封而且能使门板螺丝不致脱落，并在螺丝拧紧时起导向的作用
- The door plate and box body are installed with special screws and retainers in accordance with common standards, which can ensure the Protection grade and the operation and maintenance in the narrow space in the box
 - Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
 - PU foaming sealing strip ensures a protection grade of IP66 to box body
 - The grounding can be connected to box body and door plate
 - Racks with screw holes are provided on both sides of the box to ensure the max. mounting height and allow the installation of supporting rail or mounting plate
 - The special plastic insulating sleeve can provide sealing and prevent door plate screw loosening, and guide screws when they are tightened

SKL系列订货规格表
SKL series order specification table

序号 No.	订货号(SKL) Order number (SKL)	宽 Width	高 Height	深 Depth
1	SKL151508002	150	150	80
2	SKL151512002	150	150	120
3	SKL201508002	200	150	80
4	SKL201512002	200	150	120
5	SKL202012002	200	200	120
6	SKL302012002	300	200	120
7	SKL302015502	300	200	155
8	SKL302021002	300	200	210
9	SKL383021002	380	300	210
10	SKL383821002	380	380	210



材料 Material	SUS304(其它材料型号可选) SUS304 (other material types are option)
表面处理 Surface treatment	拉丝, 安装板则为镀锌 Brushing, galvanized mounting plate
防护等级 Protection	IP66(按GB4205-1993 EN60529) IP66 (acc. to GB4205-1993 EN60529)
标准配置 Standard configuration	门板、箱体、密封条、箱盖螺钉、安装板(可选) Door plate, box body, sealing strip, cover screw, mounting plate (option)
钢板厚度 Plate thickness	箱体: 1.2-1.5mm 门板: 1.5mm 安装板: 2.5mm Box body: 1.2-1.5mm Door plate: 1.5mm Mounting plate: 2.5mm



安装板(可选)
Mounting plate (option)



壁挂件(SUS304)
Wall mounting parts (SUS304)



支撑轨
可支撑接线板和输配电设备
Supporting rail
To support connection box and powertransmission/distribution equipment

产品特点 Features of Products

- 门板与箱体采用专用螺钉和护圈按通用标准安装，不但确保防护等级而且确保箱体在极狭小空间使用及维护
- 箱口多层保护槽不但能起加固作用而且能防止门板打开时脏物和水进入箱内
- PU发泡密封条确保箱体防护等级达到IP66
- 接地线可连接箱体和门板
- 箱体两侧配有开有螺丝孔的支架条，确保最大的安装高度，并可以安装支撑轨或安装板
- 特制的塑料绝缘套管不但能够密封而且能使门板螺丝不致脱落，并在螺丝拧紧时起导向的作用
- 表面拉丝处理(高档箱体内部可做喷砂处理)
- The door plate and box body are installed with special screws and retainers in accordance with common standards, which can ensure the Protection grade and the operation and maintenance in the narrow space in the box
- Multiple protection grooves are designed at the box opening can not only reinforce the structure but also prevent the entry of dirt or water when the door is opened
- PU foaming sealing strip ensures a protection grade of IP66 to box body
- The ground can be connected to box body and door plate
- Racks with screw holes are provided on both sides of the box to ensure the max. mounting height and allow the installation of supporting rail or mounting plate
- The special plastic insulating sleeve can provide sealing and prevent door plate screw loosening, and guide screws when they are tightened
- Surface wire drawing treatment (sand blasting is available in high-class box)

BKL 系列订货规格表

BKL series order specification table

*可定制非标产品
Nonstandard products are customizable

序号 No.	订货号(BKL) Order number (BKL)	宽 Width	高 Height	深 Depth
1	BKL1515080304	150	150	80
2	BKL1515120304	150	150	120
3	BKL2015080304	200	150	80
4	BKL2015120304	200	150	120
5	BKL2020120304	200	200	120
6	BKL3020120304	300	200	120
7	BKL3020155304	300	200	155
8	BKL3020210304	300	200	210
9	BKL3830210304	380	300	210
10	BKL3838210304	380	380	210

SKL/BKL安装板尺寸规格表

SKL/BKL mounting plate dimensions table

安装板尺寸 Mounting plate dimensions			箱体尺寸 Box dimensions	
G	F1	F2	宽	高
135	125	--	150	150
185	125	--	200	150
185	175	50	200	200
285	175	50	300	200
285	275	50	300	300
365	275	50	380	300
365	355	50	380	380

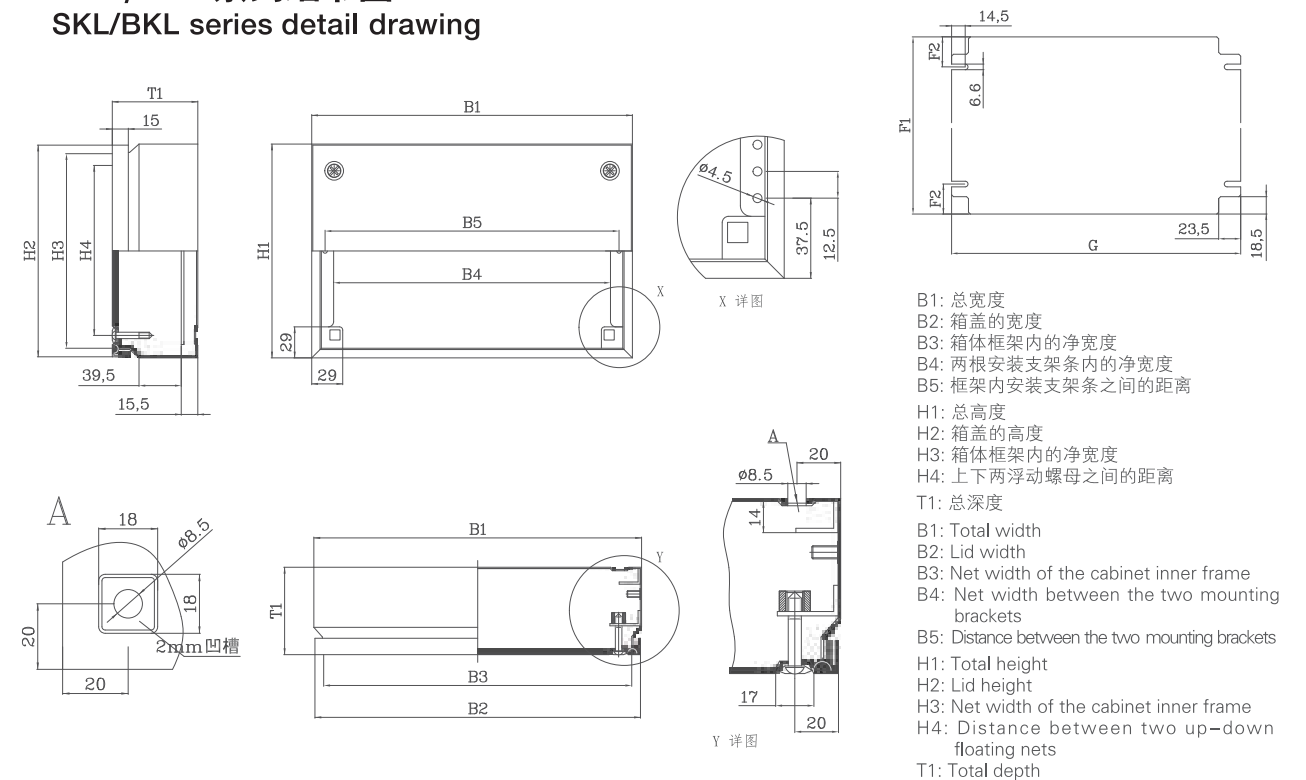
SKL/BKL系列尺寸规格表

SKL/BKL series dimensions table

规格尺寸 Dimensions			宽度 Width					高度 Height				深度 Depth
宽 width	高 height	深 depth	B1	B2	B3	B4	B5	H1	H2	H3	H4	T1
150	150	80	150	148	132	109	125	150	148	132	100	80
150	150	120	150	148	132	109	125	150	148	132	100	120
200	150	80	200	198	182	159	175	150	148	132	100	80
200	150	120	200	198	182	159	175	150	148	132	100	120
200	200	120	200	198	182	159	175	200	198	182	150	120
300	200	120	300	298	282	259	275	200	198	182	150	120
300	200	155	300	298	282	259	275	200	198	182	150	155
300	200	210	300	298	282	259	275	200	198	182	150	210
380	300	210	380	378	362	339	355	300	298	282	250	210
380	380	210	380	378	362	339	355	380	378	362	330	210

SKL/BKL系列细节图

SKL/BKL series detail drawing



产品特点 Features of Products

304不锈钢接线盒，专为便于清洁而设计的特殊外形使其成为需要高卫生标准的理想选择。坚固的螺纹盖，配有“夹入式”硅胶垫圈，防护等级IP67 / IP69K。
304 stainless steel, The special profile designed to facilitate cleaning makes it ideal for use where high standards of hygiene are required. Solid screwed cover complete with “clip-in” silicone gasket, Protection rating IP 67 / IP 69K.

技术参数 Technical Parameters

技术参数 Technical parameters	SDH
材料类型 Type of steel	304不锈钢 304 stainless steel
厚度 Thicknesses	盖 1 毫米 cover 1 mm
门开孔尺寸 Door drilling reference	宽-40 毫米 高-40 毫米 W-40 mm H-40 mm
深度 Useful depth	深-15 毫米 D-15 mm
最小尺寸 Minimum dimensions	宽=80 毫米高=80 毫米深=60 毫米 W=80 mm H=80 mm D=60 mm
最大尺寸 Maximum dimensions	宽=400 毫米高=400 毫米深=200 毫米 W=400 mm H=400 mm D=200 mm
尺寸间距 Dimensional pitch	10 毫米 10 mm

型号 Model	外形尺寸 External dimensions			重量 kg	安装板尺寸 Mounting plate dimensions		孔中心距离 Centre to centre distance between rear bushings	
	W	H	D		W	H	W	H
SDH99	90	90	90	0.53				60
SDH914	90	140	90	0.68				110
SDH920	90	200	90	0.92				170
SDH928	90	280	90	1.13				250
SDH1010	100	100	100	0.72	70	85		70
SDH1016	100	160	100	1.01	70	145		130
SDH1020	100	200	100	1.21	70	185		170
SDH1616	160	160	100	1.43	130	130	110	110
SDH1625	160	250	100	2.05	130	220	110	200
SDH2020	200	200	100	2.12	170	170	150	150
SDH2025	200	250	120	2.59	170	220	150	200
SDH2030	200	300	120	3.14	170	270	150	250
SDH2040	200	400	120	3.74	170	370	150	350
SDH3030	300	300	120	4.48	270	270	250	250
SDH3040	300	400	120	5.70	270	370	250	350
SDH4040	400	400	120	7.34	370	370	350	350

产品特点 Features of Products

304不锈钢按钮盒，专为便于清洁而设计的特殊外形使其成为需要高卫生标准的理想选择。带有“夹入式”硅胶垫圈的螺纹盖，预先钻有22,5 mm 孔 (0.89")。不带内部安装板，防护等级 IP 67 / IP 69K。
304 stainless steel, The special profile designed to facilitate cleaning makes it ideal for use where high standards of hygiene are required. Screwed cover with “clip-in” silicone gasket,pre-drilled with22,5 mm holes (0.89"). Without internal mounting plate. Protection rating IP 67 / IP 69K.

技术参数 Technical Parameters

技术参数 Technical parameters	SPH
材料类型 Type of steel	304不锈钢 304 stainless steel
厚度 Thicknesses	盖 1 毫米 cover 1 mm
门开孔尺寸 Door drilling reference	宽-40 毫米 高-40 毫米 W-40 mm H-40 mm
深度 Useful depth	深-15 毫米 D-15 mm
最小尺寸 Minimum dimensions	宽=80 毫米高=80 毫米深=60 毫米 W=80 mm H=80 mm D=60 mm
最大尺寸 Maximum dimensions	宽=400 毫米高=400 毫米深=200 毫米 W=400 mm H=400 mm D=200 mm
尺寸间距 Dimensional pitch	10 毫米 10 mm

型号 Model	外形尺寸 External dimensions			重量 kg	安装板尺寸 Mounting plate dimensions		孔中心距离 Centre to centre distance between rear bushings	
	W	H	D		W	H	W	H
SPH99	90	90	90	0.53				60
SPH914	90	140	90	0.68				110
SPH920	90	200	90	0.92				170
SPH928	90	280	90	1.13				250
SPH1010	100	100	100	0.72	70	85		70
SPH1016	100	160	100	1.01	70	145		130
SPH1020	100	200	100	1.21	70	185		170
SPH1616	160	160	100	1.43	130	130	110	110
SPH1625	160	250	100	2.05	130	220	110	200
SPH2020	200	200	100	2.12	170	170	150	150
SPH2025	200	250	120	2.59	170	220	150	200
SPH2030	200	300	120	3.14	170	270	150	250
SPH2040	200	400	120	3.74	170	370	150	350
SPH3030	300	300	120	4.48	270	270	250	250
SPH3040	300	400	120	5.70	270	370	250	350
SPH4040	400	400	120	7.34	370	370	350	350

IP AND IK CLASSIFICATIONS

IP、IK 防护等级标准



First Number	防固形物	Second Number	防水	IK	防物理冲击
IP	Protection	IP	Protection	IK	Test
0	无防护 No protection		无防护 No protection		无防护 No protection
1	防护50mm直径和更大的固体外来体 protected against solid objects up to 50 mm e.g. to 50 mm e.g. hands		防护垂直落下的水滴 protected against vertically falling drops of water	-	冲击<1 焦耳 impact<1 joule
2	防护12.5mm直径和更大的固体外来体 protected against solid objects up to 12.5 mm e.g. fingers		箱体倾斜15°时，防护垂直落下的水滴 protected against direct sprays of water up to 15° from the vertical		1焦耳冲击 impact 1 joule
3	防护2.5mm直径和更大的固体外来体 protected against solid objects over 2.5mm (tools+small wires)		防护以60°角从垂直线两侧溅出的水 protected against water sprayed from all directions-limited ingress permitted		2焦耳冲击 impact 2 joule
4	防护1.0mm直径和更大的固体外来体 protected against solid objects over 1mm (tools+small wires)		防护从每个方向对准箱体的溅水 protected against water sprayed from all directions-limited ingress permitted		5焦耳冲击 impact 5 joule
5	防护灰尘 protected against dust-limited ingress permitted (no harmful deposit)		防护从每个方向对准箱体的低压喷水 protected against low pressure jets of water from all directions-limited ingress permitted		10焦耳冲击 impact 10 joule
6	灰尘封闭 totally protected against dust		防护从每个方向对准箱体的高压喷水 protected against strong jets of water e.g. for use on shipdecks-limited ingress permitted		20焦耳冲击 impact 20 joule
			防护在15cm~1m深水浸入30分钟 protected against the effects of immersion between 15 cm and 1m		
			防护长时间浸入水中 protected against long periods of immersion under pressure		

TECHNICAL INFORMATION

技术信息



材料特性一览表

LIST OF MATERIAL PROPERTIES

	弱酸 weak acid	强酸 strong acid	弱碱 Weak base	强碱 strong base	酒精 Alcohol	汽油 gasoline	苯 benzene	矿物油 mineral oil	柴油 diesel fuel	氨气 Ammonia	植物油脂 Vegetable fat	动物油脂 Animal fats	卤素、重金属、PVC、不含无硅脂 Halogen, heavy metal, PVC, non-silicone-free	阻燃等级根据VDE 0471/en 60695/ul 94 Flame retardant grade according to VDE 0471/en 60695/ul 94	最高环境温度短时间 (1小时) Highest ambient temperature for a short time (1 hour)	最高环境温度长时间 (持续) Maximum ambient temperature for a long time (continuous)
ABS-抗冲击 ABS-impact resistance	○	/	●	●	●	/	/	○	/	●	○	○	是 Yes	960℃ / V-2	+80℃	-40℃ — +70℃
PC-玻璃纤维加强 PC-glass fiber reinforced	○	/	/	/	●	●	/	●	○	/	●	●	是 Yes	960℃ / V-2	+130℃	-35℃ — +120℃
PC-透明 PC-transparent	○	/	/	/	○	○	/	●	○	/	●	●	是 Yes	850℃ / V-2	+130℃	-35℃ — +120℃
聚乙烯 Polyethylene	●	●	●	●	●	○	/	○	○	●	●	●	是 Yes	650℃ / V-2	+100℃	-40℃ — +70℃
聚丙烯 Polypropylene	●	○	●	○	●	○	○	●	○	●	●	●	是 Yes	960℃ / V-2	+120℃	-30℃ — +100℃
聚丙烯，无卤素 Polypropylene, halogen-free	●	○	●	○	●	○	○	●	○	●	●	●	是 Yes	960℃ / V-2	+120℃	-30℃ — +100℃
聚丙烯共聚物 Polypropylene copolymer	●	○	●	○	●	○	○	○	●	●	●	●	是 Yes	650℃ / HB	+120℃	-30℃ — +100℃
聚亚胺酯 Polyurethane	○	○	○	○	○	○	○	●	○	○	●	●	是 Yes	650℃ / -	+110℃	-35℃ — +80℃
铝-AL 12 Si Aluminum-AL 12 Si	●	○	●	●	○	●	/	●	●	●	○	○	是 Yes	-	+130℃	-40℃ — +100℃
聚酯，玻璃纤维加强 Polyester, glass fiber reinforced	○	/	○	/	●	●	●	●	●	●	●	●	是 Yes	960℃ / V-0	+120℃	-40℃ — +100℃
聚酰亚胺（尼龙6），玻璃纤维加强 Polyimide (nylon 6), glass fiber reinforced	●	○	●	●	●	●	○	●	●	●	○	○	是 Yes	750℃ / HB	+200℃	-30℃ — +100℃
热塑性人造橡胶 Thermoplastic elastomer	●	○	●	○	●	○	○	○	○	○	●	●	是 Yes	750℃ / HB	+110℃	-30℃ — +80℃

● 稳定 Stabilize ○ 条件性稳定 Conditionally stable / 不稳定 Unstable



材料特性一览表
LIST OF MATERIAL PROPERTIES

	PC	ABS	聚酯纤维 Polyester	铝 aluminum	AISI304不锈钢 AISI304 stainless steel	AISI316不锈钢 AISI316 stainless steel	粉末涂层钢 Powder coated steel
室外 outdoor	●●●●●	●●	●●●●●●	●●●●●	●●●●●●	●●●●●●	●●●●●
室内 indoor	●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●
成本 cost	●●●●●	●●●●●●	●●	●●●	●	●	●●
重量 weight	●●●●●●	●●●●●●	●●	●	●	●	●
硬度 hardness	●●●	●●	●●●●	●●●●●	●●●●●●	●●●●●●	●●●●●●
抗冲击 Impact resistance	●●●●●	●●	●●●●●	●●●●●	●●●●●●	●●●●●●	●●●●●●
抗紫外线 anti-UV	●●●●●	●	●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●
温度范围 temperature range	●●●●●	●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
加工难易度 Processing difficulty	●●●●●●	●●●●●●	●	●	●	●	●●
绝缘性 Insulation	●●●●●●	●●●●●●	●●●●●	K/A	K/A	K/A	K/A
防火性能 Fire performance	●●●●●	●	●	●●●●●	●●●●●●	●●●●●●	●●●●●●
抗溶剂 Anti-solvent	●	●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●
抗汽油 Gasoline resistant	●●●	●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●
抗高压流体 Resistant to high pressure fluids	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●●●●●	●●
抗酒精 Anti-alcohol	●●●●●	●●●	●●●●●	●●●●●●	●●●●●●	●●●●●●	●●
抗碱性 Alkaline resistance	●●	●●●●●●	●●●●●	●	●●●●●●	●●●●●●	●
抗酸性 Acid resistance	●●●	●●	●●●	●	●●●●●	●●●●●●	●

●●●●● 极好 Excellent ●●●●●/●●●● 好 good ●● 中等 medium ● 较差 Poor K/A 无法使用 Not available



聚碳酸酯（PC）Polycarbonate (PC)	
+高抗冲击强度 +High impact strength	-由于加入玻纤，达到正确的色度非常困难 -Due to the addition of glass fiber, it is very difficult to achieve the correct chromaticity
+高防护等级 +High protection level	
+重量轻 + Light weight	
+化学稳定性高 +High chemical stability	
+适用温度范围大 +Large applicable temperature range	
+燃烧后会自动熄灭 + It will automatically extinguish after burning	
+加工性好 +Good processability	
+绝缘性好 +Good insulation	
+可用于室外 + Can be used outdoors	
+可配透明盖 +Can be equipped with transparent cover	

工程塑料（ABS）Engineering Plastics (ABS)	
+价廉物美 +Cheap and good quality	-抗冲击强度能力低于PC -Impact resistance is lower than PC
+重量轻 +Light weight	-抗温度影响能力低于PC -Resistance to temperature influence is lower than PC
+化学稳定性高 + High chemical stability	-抗紫外线能力差 -Poor UV resistance
+能用常用工具加工 +Can be processed with common tools	-不适用于户外 -Not suitable for outdoor use
	-不会自动熄灭 -Won't turn off automatically

聚酯（GRP,玻纤加强的聚酯） Polyester (GRP, glass fiber reinforced polyester)	
+耐温性能好 +Good temperature resistance	-加工困难 -Difficulty in processing
+高抗冲击强度 +High impact strength	-不能回收再利用 -Can not be recycled
+防腐性强 + Strong corrosion resistance	
+与多种溶剂的化学稳定性高 +High chemical stability with various solvents	
+适用于高要求工业环境 +Suitable for demanding industrial environments	

铝（AL）Aluminum (AL)	
+比钢质轻 +Lighter than steel	-价格比热塑性材料贵 -More expensive than thermoplastic materials
+很高抗冲击强度 +Very high impact strength	
+与多种溶剂的化学稳定性高 + High chemical stability with various solvents	
+很高的抗温度性能 +Very high temperature resistance	
+很高的防腐性能 +High corrosion resistance	

涂酯钢（DC01 AM）Ester coated steel (DC01 AM)	
+很高抗冲击强度 +Very high impact strength	-易腐蚀 -Easy to corrode
+高防护等级 +High protection level	
+很高的抗温度性能 +Very high temperature resistance	
+易满足客户特殊尺寸要求定制 + Easy to meet customer's special size requirements and customization	

不锈钢（AISI 304）Stainless steel (AISI 304)	
+高抗冲击强度 +High impact strength	-比涂酯钢难以定制加工 -More difficult to custom process than ester-coated steel
+高防护等级 +High protection level	
+防腐性能强 +Strong anti-corrosion performance	
+抗紫外线能力强 +Strong UV resistance	
+可用于室外，建议遮盖防雨 +Can be used outdoors, it is recommended to cover and prevent rain	
+适用于工业环境 +Suitable for industrial environment	
+非常适用于食品加工工业 +Very suitable for the food processing industry	

防酸钢（AISI 316）Acid-proof steel (AISI 316)	
具有不锈钢（AISI 304）的所有优点，以及： Has all the advantages of stainless steel (AISI 304), as well as:	
+很高的防腐性能 +High corrosion resistance	
+非常适用于海上作业环境 +Very suitable for offshore working environment	
+非常适用于造纸业 +Very suitable for the paper industry	



Ip防护种类，EN 60529 Ip protection type, EN 60529

1.代码 1.Code		2.代码 2.Code	防水 water proof	无防护 Without protection	防护垂直落下的水滴进入 Protection against the entry of vertically falling water droplets	防护最大喷射角度为15°的水滴进入 Protect water droplets with a maximum spray angle of 15° from entering	防护最大喷射角度为60°的水滴进入 Protect water droplets with a maximum spray angle of 60° from entering	有限度低档全方位喷射水滴，不致产生危害 Limited low-grade spraying of water droplets in all directions, without causing harm	有限度低档全方位喷射水柱溅入，不致产生危害 Limited low-grade all-round jetting water jet splashes in, which will not cause harm	有限度低档全方位高压喷射水柱溅入，不致产生危害 Limited low-grade, omni-directional high-pressure water jet splashes, which will not cause harm	防护短时间的水中浸没 Protection against short-term immersion in water	防护长时间水中浸没 Protection against prolonged immersion in water
防止用户接触危险部件 Prevent users from touching dangerous parts	对固态侵入物的防护 Protection against solid intrusions			IP X0	IP X1	IP X2	IP X3	IP X4	IP X5	IP X6	IP X7	IP X8
无任何防护 Without any protection	无任何防护 Without any protection	IP 0 X		IP 00								
防止意外被手触碰 Prevent accidental touching by hands	防止超过50mm的固态物入侵 Prevent intrusion of solid objects over 50mm	IP 1 X		IP 10	IP 11	IP 12						
防止手指触碰危险部件 Prevent fingers from touching dangerous parts	防止超过12.5mm的固态物入侵 Prevent intrusion of solid objects over 12.5mm	IP 2 X		IP 20	IP 21	IP 22	IP 23					
防止超过25mm的工具接触危险部件 Prevent tools larger than 25mm from contacting dangerous parts	防止超过2.5mm的固态物入侵 Prevent intrusion of solid objects over 2.5mm	IP 3 X		IP 30	IP 31	IP 32	IP 33	IP 34				
防止超过1.0mm的电线接触危险部件 Prevent wires exceeding 1.0mm from contacting dangerous parts	防止超过1mm的固态物入侵 Prevent intrusion of solid objects over 2.5mm	IP 4 X		IP 40	IP 41	IP 42	IP 43	IP 44				
防止超过1.0mm的电线接触危险部件 Prevent wires exceeding 1.0mm from contacting dangerous parts	防止尘埃入侵，至不产生有害沉积 Prevent the intrusion of dust, so as not to produce harmful deposits	IP 5 X		IP 50				IP 54	IP 55			
防止超过1.0mm的电线接触危险部件 Prevent wires exceeding 1.0mm from contacting dangerous parts	完全阻隔任何尘埃的进入 Completely block the entry of any dust	IP 6 X		IP 60					IP 65	IP 66	IP 67	IP 68

认证核准 Certification and approval

	10系列	11系列		12系列		13系列		14系列	15系列	17系列	18系列	19系列
材质 Material	PC	PC	ABS	PC	ABS	PC	ABS	PC	AL	GRP	ST	ES
SGS FIMO EN 62208	■	■	■	■	■	■	■					
UL	■	■		■		■		■			■	
cUL	■	■		■		■		■				
GOST	■	■	■	■	■	■	■	■			■	■
Germanischer Lloyd	■		■		■		■	■	■	■	■	■



NEMA 防护等级 NEMA protection level

NEMA防护等级 NEMA protection level	IP-保护种类 IP-protection type	内部范围 Internal scope	外部范围 Outer scope	内部和外部范围 Internal and external scope	防护： Protection:
NEMA 1	IP 23	■			防护垂直下落 Protection against vertical drops
NEMA 2	IP 30	■			喷水和灰尘 Water spray and dust
NEMA 3	IP 64		■		风尘，灰尘和冰雹 Wind dust, dust and hail
NEMA 3R	IP 32		■		下雨和结冰 Rain and icing
NEMA 3S	IP 64		■		如3，设备也适用于室外和结冰状态下 Such as 3, the equipment is also suitable for outdoor and icy conditions
NEMA 4	IP 66			■	如3，防护喷水束和结冰 Such as 3, protection against water spray and icing
NEMA 4X	IP 66			■	如4,防护结冰和腐蚀 Such as 4, protection against icing and corrosion
NEMA 6	IP 66-68			■	如6P,防护结冰和腐蚀 Such as 6P, protection against icing and corrosion
NEMA 6P	IP 67-68			■	短期浸水 Short-term flooding
NEMA 12, 12K	IP 65	■			灰尘和不带腐蚀的喷水束 Dust and water jet without corrosion
NEMA 13	IP 65	■			如12，防护油和不带防腐腐蚀的冷却剂 Such as 12, protective oil and no anti-corrosion coolant

NEMA（National Electrical Manufactures Association）是美国电子工业标准机构。根据NEMA的明细表和测试方法Underwriters Laboratories（UL）对我们提供的箱体进行测试。以上的表格是NEMA的保护等级与相应的IP-防护种类。

NEMA (National Electrical Manufactures Association) is the American Electronics Industry Standards Agency. According to the NEMA schedule and test method Underwriters Laboratories (UL), the cabinets we provide are tested. The above table is the protection level of NEMA and the corresponding IP-protection type.

RAL COLOR CARD

RAL色卡



RAL1000 Green beige 米绿色	RAL1001 Beige 米色, 淡黄或灰黄	RAL1002 Sand yellow 沙黄色	RAL1003 Signal yellow 信号黄	RAL1004 Goldenyellow 金黄色	RAL1005 Honey yellow 蜜黄色	RAL1006 Maize yellow 玉米黄	RAL1007 Daffodil yellow 灰黄色	RAL1011 Brown beige 米褐色
RAL1012 Lemon yellow 柠檬黄	RAL1013 Oyster white 牡蛎白	RAL1014 Ivory 象牙色	RAL1015 Light ivory 浅象牙色	RAL1016 Sulfur yellow 硫磺色	RAL1017 Saffron yellow 橘黄色	RAL1018 Zinc yellow 锌黄色	RAL1019 Grey beige 米灰色	RAL1020 Olive yellow 橄榄黄
RAL1021 Rape yellow 油菜黄	RAL1023 Traffic yellow 交通黄	RAL1024 Ochre yellow 赭黄色	RAL1026 Luminous yellow 荧光黄	RAL1027 Curry 咖喱色	RAL1028 Melon yellow 瓜黄色	RAL1032 Broom yellow 金雀花黄	RAL1033 Dahlia yellow 大丽花黄	RAL1034 Pastel yellow 粉彩黄
RAL1035 (金属漆) Pearl beige 珍珠米	RAL1036 (金属漆) Pearl gold 珍珠金	RAL1037 Sun yellow 太阳黄	RAL2000 Yellow orange 黄橙色	RAL2001 Red orange 红橙色	RAL2002 Vermilion 朱红色	RAL2003 Paster orange 粉彩橙	RAL2004 Pure orange 纯橙色	RAL2005 Luminous orange 荧光橙
RAL2007 Leuchthellorange 荧光亮橙	RAL2008 Bright red orange 亮红橙	RAL2009 Traffic orange 交通橙	RAL2010 Somgnal orange 信号橙	RAL2011 Deep orange 深橙色	RAL2012 Salmon orange 鲑鱼橙	RAL2013 (金属漆) Pearl orange 珍珠橙	RAL3000 Flame red 火焰红	RAL3001 Signal red 信号红
RAL3002 Carmine red 胭脂红	RAL3003 Ruby red 宝石红	RAL3004 Purple red 紫红色	RAL3005 Wine red 葡萄酒红	RAL3007 Black red 黑红色	RAL3009 Oxide red 氧化红	RAL3011 Brown red 棕红色	RAL3012 Beige red 米红色	RAL3013 Tomato red 番茄红
RAL3014 Antique pink 古旧粉	RAL3015 Light pink 淡粉色	RAL3016 Coral red 珊瑚红色	RAL3017 Rose 玫瑰色	RAL3018 Strawberry red 草莓红	RAL3020 Traffic red 交通红	RAL3022 Salmon pink 鲑鱼粉	RAL3024 Luminous red 荧光红	RAL3026 Luminous bright red 荧光亮红
RAL3027 Raspbery red 树莓红	RAL3031 Orient red 戈亚红色	RAL3032 (金属漆) Pearl ruby red 珍珠宝石红	RAL3033 (金属漆) Pearl pink 珍珠粉	RAL4001 Red lilac 红丁香紫	RAL4002 Red violet 红紫色	RAL4003 Heather violet 石南紫	RAL4004 Claret violet 酒红紫	RAL4005 Blue lilac 蓝丁香紫
RAL4006 Traffic purple 交通紫	RAL4007 Purple violet 罗兰紫	RAL4008 Signal violet 信号紫	RAL4009 Pastel violet 粉彩紫	RAL4010 elemagenta 电信紫	RAL4011 (金属漆) Pearl violet 珍珠紫	RAL4012 (金属漆) Peal blackberry 珍珠黑莓紫	RAL5000 Violet blue 紫蓝色	RAL5001 Green blue 绿蓝色
RAL5002 Ultramarine blue 群青蓝	RAL5003 Sapphire blue 宝石蓝	RAL5004 Black blue 黑蓝色	RAL5005 Signal blue 信号蓝	RAL5007 Brillant blue 亮蓝色	RAL5008 Grev blue 灰蓝色	RAL5009 Azure blue 天青蓝	RAL5010 Gentian blue 龙胆蓝	RAL5011 Steel blue 钢蓝色
RAL5012 Light blue 淡蓝色	RAL5013 Cobalt blue 钴蓝色	RAL5014 Pigeon blue 鸽蓝色	RAL5015 Sky blue 天蓝色	RAL5017 Traffic blue 交通蓝	RAL5018 Turquoise blue 绿松石蓝	RAL5019 Capri blue 卡普里蓝	RAL5020 Ocean blue 海洋蓝	RAL5021 Water blue 水蓝色
RAL5022 Night blue 夜蓝色	RAL5023 Distant blue 深邃蓝	RAL5024 Pastel blue 粉彩蓝	RAL5025 (金属漆) Pearl gentian blue 珍珠龙胆蓝	RAL5026 (金属漆) Pearl night blue 珍珠夜蓝	RAL6000 Patina green 铜绿色	RAL6001 Emerald greet 翠绿色	RAL6002 Leaf green 叶绿色	RAL6003 Olive green 橄榄绿

RAL COLOR CARD

RAL色卡



RAL6004 Blue green 蓝绿色	RAL6005 Moss green 苔藓绿	RAL6006 Grey olive 灰橄榄绿	RAL6007 Bottle green 瓶绿色	RAL6009 Fir greet 冷杉绿	RAL6010 Grass greet 草绿色	RAL6011 Reseda green 灰绿色	RAL6012 Black green 墨绿色	RAL6013 Reed green 芦苇绿
RAL6014 Yellow olive 黄橄榄绿	RAL6015 Black olive 黑橄榄绿	RAL6016 Turquoise green 松石绿	RAL6017 May green 五月绿	RAL6018 Yellow green 黄绿色	RAL6019 Pastel green 粉彩绿	RAL6020 Ming Green 铬绿色	RAL6021 Light green 苍白绿	RAL6022 Olive drab 橄榄土褐色
RAL6024 Traffic green 交通绿	RAL6025 Fern green 蕨绿色	RAL6026 Opal green 蛋白石绿	RAL6027 Light green 淡绿色	RAL6028 Pine green 松绿色	RAL6029 Mint green 薄荷绿	RAL6032 Signal greet 信号绿	RAL6033 Mint turquoise 薄荷蓝绿	RAL6034 Pastel Turquoise 粉彩蓝绿
RAL6035 (金属漆) Pearl green 珍珠绿	RAL6036 (金属漆) Pearl opal green 珍珠蛋白石绿	RAL7000 Gray squirrel 松鼠灰	RAL7001 Silver 银灰色	RAL7002 Olive gray-green 橄榄灰	RAL7003 Moss grey 苔藓灰	RAL7004 Signal grey 信号灰	RAL7005 Mouse grey 鼠灰色	RAL7006 Mgray 米灰色
RAL7008 Khakigrey 卡其灰	RAL7009 Green grey 绿灰色	RAL7010 Tarpaulin grey 油布灰	RAL7011 Iron grey 铁灰色	RAL7012 Basaltic lime 玄武岩灰	RAL7013 Brown grey 棕灰色	RAL7015 Slate grey 板岩灰	RAL7016 Anthracite grey 煤灰色	RAL7021 Black grey 黑灰色
RAL7022 Umbra grey 暗灰色	RAL7023 Concrete grey 混凝土灰	RAL7024 Graphite grey 石墨灰	RAL7026 Granite grey 花岗岩灰	RAL7030 Stone grey 石灰色	RAL7031 Blue grey 蓝灰色	RAL7032 Pebble grey 卵石灰	RAL7033 Cement grey 水泥灰	RAL7034 Yellow grey 黄灰色
RAL7035 Light grey 浅灰色	RAL7036 Platinum grey 铂金灰	RAL7037 Dustygrey 土灰色	RAL7038 Agate grey 玛瑙灰	RAL7039 Quartz grey 石英灰	RAL7040 Window grey 窗灰色	RAL7042 Traffic grey A 交通灰A	RAL7043 Traffic grey B 交通灰B	RAL7044 Silk grey 丝灰色
RAL7045 Telegrey 1 电信灰1	RAL7046 Telegrey 2 电信灰2	RAL7047 Telegrey 4 电信灰4	RAL7048 (金属漆) Pearl mouse grey 珍珠鼠灰	RAL8000 Green brown 绿棕色	RAL8001 Ochre brown 赭石棕	RAL8002 Signal brown 信号棕	RAL8003 Brown soil 土棕棕	RAL8004 Coper brown 铜棕色
RAL8007 Brown Deer 鹿棕色	RAL8008 Olive brown 橄榄棕	RAL8011 Dark brown 深棕色	RAL8012 Red brown 红棕色	RAL8014 Sepia brown 乌贼棕	RAL8015 Su Brown 栗棕色	RAL8016 Mahogany brown 桃花心木褐	RAL8017 Chocolate brown 巧克力棕色	RAL8019 Grey brown 灰棕色
RAL8022 Black brown 黑棕色	RAL8023 Orange brown 橙棕色	RAL8024 Serge Brown 米黄棕	RAL8025 Pale brown 苍白棕	RAL8028 Tra brown 大地棕	RAL8029 (金属漆) Pearl copper 珍珠铜棕	RAL9001 Cream 奶油黄	RAL9002 Grey white 灰白色	RAL9003 Signal white 信号白
RAL9004 Signal black 信号黑	RAL9005 Black ink 墨黑色	RAL9006 White aluminium 白铝色	RAL9007 Grey aluminium 灰铝色	RAL9010 Pure white 纯白色	RAL9011 Graphite Black 石墨黑	RAL9016 Traffic white 交通白	RAL9017 Traffic black 交通黑	RAL9018 Papyrus white 草纸白
RAL9022 (金属漆) Peart light grey 珍珠浅灰	RAL9023 (金属漆) Pearl dark grey 珍珠深灰							